3 1761 02463691 2

SHOUT
SHARE
IT

LIBRARY
FACULTY OF FORESTRY
UNIVERSITY OF TORONTO

LIBRARY
FACULTY OF FORESTRY
UNIVERSITY OF TORONTO

I

11040

THE TREES OF GREAT BRITAIN AND IRELAND

R&R
EDINBURGH

THE TREES

OF

GREAT BRITAIN AND IRELAND

BY

HENRY JOHN ELWES, F.R.S.

AND

AUGUSTINE HENRY, M.A.

INDEX, ETC.

131136
31/1/14

EDINBURGH: PRIVATELY PRINTED

MCMXIII

QK
488
E5
1906
Index

CONTENTS

	PAGE
List of Subscribers	vii
Postscript by H. J. Elwes	xiii
Postscript by A. Henry	xxi
List of Errata and Addenda	1935
Index	1943

Digitized by the Internet Archive
in 2007 with funding from
Microsoft Corporation

http://www.archive.org/details/treesofgreatbrit00elweuoft

LIST OF SUBSCRIBERS

Ackers, B. St. John, Esq., Huntley Manor.
Acland, Sir C. T. D., Bart., Killerton, Exeter.
Addington, Lord, 24 Princes Gate, London.
Ailsa, The Marquess of, Culzean Castle, Maybole, Scotland.
Andrews, Hugh, Esq., Toddington Manor, Winchcombe.
Ashton Court Estate, The, Long Ashton, Bristol.
Avondale Forestry Station, Rathdrum, Co. Wicklow.

Backhouse, R. O., Esq., Sutton Court, Herefordshire.
Bacon, R. C., Esq., Willingham by Stow, near Gainsborough.
Bagot, Lord, Blithfield, Rugeley.
Baird, H. R., Esq., Durris House, Drumoak, Aberdeenshire.
Baker, H. Clinton, Esq., Bayfordbury, Herts.
Balfour, F. R. S., Esq., 39 Phillimore Gardens, London.
Barclay, F. H., Esq., The Warren, Cromer.
Barclay, R. L., Esq., Gaston House, Bishop Stortford.
Barrymore, Lord, Fota, Queenstown, Ireland.
Bath, The Marquess of, Longleat, Warminster.
Bathurst, Earl, Cirencester.
Battersea, the late Lord, The Pleasaunce, Overstrand, Cromer.
Battye, A. Trevor-, Esq., Ashford Chase, Petersfield, Hants.
Bazley, the late Gardner S., Esq., Hatherop Castle, Fairford, Gloucestershire.
Bazley, Sir T. S., Bart., Kilmorie, Torquay.
Beauchamp, the late Sir R. P., Bart., Langley Park, Norfolk.
Beaufort, The Duchess of, Badminton.
Bedford, The Duchess of, The Abbey, Woburn.
Bedford, The Duke of, K.G., The Abbey, Woburn (two copies).
Benson, Lieut.-Col. L., Whinfold, Hascombe, Godalming.
Bentham Trustees, The, Royal Botanic Gardens, Kew (two copies).
Berkeley, The Earl of, Foxcombe, near Oxford.
Biddulph, Lord, Ledbury, Herefordshire.
Birkbeck, Robert, Esq., 20 Berkeley Square, London.
Bosanquet, Percival, Esq., Ponfield, Herts.
Bowles, E. A., Esq., Myddelton House, Waltham Cross, Herts.
Bradford, The Earl of, Weston Park, Shifnal.
Brassey, Albert, Esq., Heythrop, Chipping Norton.
Brodie of Brodie, Brodie Castle, Forres, Scotland (two copies).
Brownlow, Earl, Belton House, Grantham.
Bubb, Henry, Esq., Ullenwood, Cheltenham.
Buchanan, J. Hamilton, Esq., Leny, Callander, Scotland.
Burroughes, T. H., Esq., 16 Lower Berkeley Street, London.

Carlile, W. W., Esq., Gayhurst, Newport-Pagnell.
Carlton Club Library, Pall Mall, London.
Castletown of Upper Ossory, Lord, Doneraile Court, Ireland.
Cator, Mrs., Trewsbury, Coates, Cirencester.
Cawdor, the late Earl, Stackpole Court.
Chadwick, the late Major, Findhorn House, Forres, Scotland.

Chambers, the late B. E. C., Esq., Grayswood Hill, Haslemere.
Champion, W. N. L., Esq., Riddlesworth Hall, Thetford, Norfolk.
Charterhouse School, The, Godalming.
Cheylesmore, Lord, K.C.V.O., 16 Princes Gate, London.
Chichester, Major C. H., Hall, Barnstaple.
Childe, Mrs. Baldwyn, Kyre Park, Tenbury.
Cirencester, The Royal Agricultural College.
Clark, Kenneth M., Esq., Sudbourne Hall, Orford, Suffolk.
Clarke, Harvey R. G., Esq., Brook House, Hayward's Heath, Sussex.
Clarke, Stephenson R., Esq., C.B., Borde Hill, Cuckfield, Sussex.
Clifford, Henry F., Esq., The Grange, Frampton-on-Severn, Gloucestershire.
Clinton, Lord, Heanton Satchville, Dolton, N. Devon.
Cockburn, N. C., Esq., Harmston Hall, Lincoln.
Colley, T. H. Davies-, Esq., 71 Princess Street, Manchester.
Conant, E. W. P., Esq., Lyndon Hall, Oakham.
Cookson, Hugh, Esq., Trelissick, Truro.
Cornewall, the late Rev. Sir George H., Bart., Moccas Court, Hereford.
Cowdray, Lady, Dunecht House, Aberdeenshire.
Cranbrook, the late Earl of.
Crewdson, Theodore, Esq., Spurs, Styal, Handforth, Cheshire.
Crichton, The Hon. Arthur, 8 Southwick Crescent, London.

Dalrymple, The Hon. Hew, Lochinch, Castle Kennedy, Wigtownshire.
Darnley, The Earl of, Cobham Hall, Kent.
Davies, Capt. H. Kevill-, Croft Castle, Kingsland, Herefordshire.
Dawnay, The Hon. Mrs., Ruston, Wykeham, Yorkshire.
De Mauley, Lord, Langford House, Lechlade, Oxfordshire.
Dent, Major John W., Ribston Hall, Wetherby, Yorkshire.
De Vesci, Viscount, Abbey Leix, Ireland.
Dimsdale, R., Esq., Eastleach, Lechlade, Oxfordshire.
Dorington, the late Rt. Hon. Sir John E., Bart.
Drummond, Mrs. Hay, Cromlix, Dunblane.
Duchesne, M. C., Esq., Farnham Common, Slough, Bucks.
Ducie, The Earl of, Tortworth Court, Gloucestershire (two copies).
Dunsmuir, The Hon. James, Victoria, B.C.
Dyer, Sir William T. Thiselton-, F.R.S., Great Witcombe, Gloucester.

Eldon, The Earl of, Stowell Park, Gloucestershire.
Elwes, the late Arthur H. S., Esq., Congham House, King's Lynn.
Elwes, the late V. D. H. Cary-, Esq., Billing Hall, Northamptonshire.
Enys, the late John D., Esq., Enys, Penryn, Cornwall.
Evans, John D. D., Esq., Ffrwdgrech, Brecon.

Fenwick, Mark, Esq., Abbotswood, Stow-on-the-Wold.
Fenwick, Walter L., Esq., Witham Hall, Bourne.
Firebrace, C. W., Esq., Danehurst, Uckfield, Sussex.
Fletcher, W. H. B., Esq., Aldwick Manor, Bognor.
Flux, the late William, Esq.
Ford, the late Mrs., Pencarrow, Cornwall.
Foster, P. S., Esq., Canwell Hall, Sutton Coldfield.
Foster, W. R., Esq., The Granville, Ilfracombe.
Fothringham, W. Steuart, Esq., Murthly Castle, Perthshire.
Francis, T. Musgrave, Esq., Quy Hall, near Cambridge.

Garnett, W., Esq., Quernmore Park, Lancaster.
Gascoigne, Col., Lotherton, Aberford, Leeds.
Gibbs, the late Antony, Esq., Tyntesfield, Bristol.
Gibbs, The Hon. Herbert C., 9 Portman Square, London.

Gibbs, The Hon. Vicary, Aldenham House, Elstree.
Gilbey, Lieut.-Col. Alfred, Twyford Lodge, Winchester.
Glasgow, The Mitchell Library.
Glasnevin, The Royal Botanic Gardens.
Godman, F. Ducane, Esq., F.R.S., South Lodge, Horsham.
Goold, John C., Esq., Killeen Glebe, Dunshaughlin, Co. Meath.
Greaves, R. M., Esq., Wern, Portmadoc.
Grosvenor, Lady Hugh, 9 Southwick Crescent, London.
Gull, Sir W. Cameron, Bart., Frilsham House, Yattendon, Newbury.

Hamilton, The Duke of, Hamilton Palace.
Hanbury, Cecil, Esq., Queen Anne's Mansions, London.
Hardy, Laurence, Esq., Sandling Park, Hythe, Kent.
Harford, H. W. L., Esq., Horton, Chipping Sodbury, Gloucestershire.
Harford, John C., Esq., Falcondale, Lampeter.
Harlech, Lord, Brogyntyn, Oswestry.
Havelock, W. B., Esq., The Nurseries, Brocklesby Park, Lincolnshire.
Hawkshaw, John C., Esq., Hollycomb, Liphook, Hampshire.
Hazlerigg, Sir Arthur G., Bart., Noseley Hall, Leicester.
Hindmarsh, the late W. T., Esq., Alnwick.
Holford, Sir George L., K.C.V.O., Weston Birt House, Tetbury.
Horlick, James, Esq., Cowley Manor, near Cheltenham (three copies).
Howard, Sir E. Stafford, K.C.B., Thornbury Castle, Gloucestershire.
Hudson, Edward, Esq., 15 Queen Anne's Gate, London.

Izquierdo, Señor Don Salvador, Santiago de Chile.

James, A. J., Esq., Edgeworth Manor, Cirencester.
James, Henry A., Esq., Hurstmonceaux Place, Hailsham, Sussex.
James, the late William D., Esq., West Dean Park, Chichester.
Joicey, James, Esq., Poulton Priory, Cirencester.

Kekewich, T. H., Esq., Peamore, Exeter.
Kesteven, Lord, Casewick, Stamford.
Keyser, Charles E., Esq., Aldermaston Court, near Reading.
Kingscote, Thomas, Esq., Watermoor House, Cirencester.

Lawrence, C. W., Esq., Sandywell Park, Gloucestershire.
Leatham, A. W., Esq., Miserden Park, Gloucestershire.
Leicester, The Earl of, Holkham, Norfolk.
Lennard, Sir Henry A. H. F., Bart., Wickham Court, West Wickham, Kent.
Lewis, John B., Esq., 65 Goulbourn Avenue, Ottawa, Canada.
Llewellyn, Sir John T. D., Bart., Penllergaer, Swansea.
Loder, Sir Edmund G., Bart., Leonardslee, Horsham.
Loder, G. W. E., Esq., Wakehurst Place, Ardingly, Hayward's Heath.
Longchamps, Baron de Selys-Longchamps, Waremme, Belgium.
Lucas, C. J., Esq., Warnham Court, Horsham.
Luttrell, the late G. F., Esq., Dunster Castle, Somerset.

M'Clellan, Frank C., Esq., 38, The Avenue, Kew Gardens, Surrey.
Mackenzie, Sir Kenneth, Bart., of Gairloch, Conan House, Ross-shire.
Mackenzie, W. D., Esq., Fawley Court, Henley-on-Thames.
M'Laren, H. D., Esq., 43 Belgrave Square, London.
Malcolm, Col., C.B., of Poltalloch, Lochgilphead.
Manvers, Earl, Thoresby Park, Nottinghamshire.
Mason, W. H., Esq., Morton Hall, East Retford.
Maxwell, The Rt. Hon. Sir Herbert W., Bart., Monreith, Whauphill, Wigtownshire.

Maxwell, Sir John M. Stirling, Bart., Pollok House, Pollokshaws, Scotland.
Menzies, the late Sir Neil, Bart., Castle Menzies, Aberfeldy.
Messel, L., Esq., Nymans, Handcross, Sussex.
Methuen, Field-Marshal Lord, G.C.B., Corsham Court, Wiltshire.
Middleton, Lord, Birdsall House, York.
Mitchell, Mrs. A. C., Highgrove, Tetbury.
Moiser, Cyril, Esq., Heworth Grange, York.
Moncrieffe, Sir Robert D., Bart., Moncrieffe House, Perthshire.
Montana, U.S.A., The University Library, Missoula.
Moore, Sir F. W., Royal Botanic Gardens, Glasnevin, Dublin.
Moore, G. F., Esq., Chardwar, Bourton-on-the-Water.
Moore, Dr. Norman, Hancox, Battle, Sussex.
More, T. J. M., Esq., 31 St. George's Road, London.
Munich, Die K. B. Forstliche Versuchanstalt.

Nelson, T. A., Esq., Ach-na-Cloich, Connel, Argyllshire.
Newcastle, The Duke of, Clumber Park, Worksop.
Newman, Sir Robert L., Bart., Mamhead Park, Exeter.
Newman, Robert L., Esq., 11 Cadogan Square, London.
Nicholl, Mrs., Merthyr Mawr, Bridgend.
Northbourne, Lady, Betteshanger, Kent.
Norwich, The Free Library.

Ogilvie, F. M., Esq., 72 Woodstock Road, Oxford.
Oxford, Magdalen College.

Palmer, Charles, Esq., Stewkley Grange, Leighton Buzzard.
Palmer, the late General William J., Colorado Springs, Colorado, U.S.A. (seven copies).
Parsons, Alfred, Esq., A.R.A., 54 Bedford Gardens, Kensington, London.
Peckover of Wisbech, Lord, Bank House, Wisbech.
Peirse, E. Beresford-, Esq., Gredington, Whitchurch, Salop.
Pember, the late E. H., Esq., Vicar's Hill, Lymington, Hants.
Pembroke, the late Earl of, Wilton House, Wiltshire.
Phillimore, Lady, Cam House, Campden Hill, London.
Phillips, Lady Faudel, Balls Park, Hertford.
Pinchot, Gifford, Esq., Washington, D.C., U.S.A.
Platt, Col. Henry, C.B., Gorddinog, Llanfairfechan, N. Wales.
Portland, The Duke of, K.G., Welbeck Abbey, Worksop.
Potts, W. Trumperant, Junr., Esq., Correen Castle, Ballinasloe, Co. Roscommon.
Powis, The Earl of, Powis Castle, Welshpool.
Prain, Sir David, F.R.S., Royal Botanic Gardens, Kew.
Pratt, E. R., Esq., Ryston Hall, Norfolk.
Price, M. P., Esq., Tibberton Court, Gloucester.
Price, T. P., Esq., Mark's Hall, Essex.
Price, W. R., Esq., Pen Moel, Chepstow.
Probyn, General The Rt. Hon. Sir Dighton M., G.C.B., Buckingham Palace.
Pryor, Marlborough R., Esq., Weston Park, Stevenage, Herts.

Quaritch, Mr. Bernard, 11 Grafton Street, London.

Radnor, The Earl of, Longford Castle, Wiltshire.
Ralli, Pandeli, Esq., Alderbrook, Cranleigh, Surrey.
Ralli, Pantia, Esq., Ashtead Park, Surrey.
Rayleigh, Lady, Terling Place, Witham, Essex.
Redesdale, Lord, 1 Kensington Court, London.
Richmond and Gordon, The Duke of, K.G., Goodwood, Chichester.
Rogers, C. Coltman, Esq., Stanage Park, Brampton Bryan, Herefordshire.
Rogers, Lieut.-Col. J. M., Riverhill, Sevenoaks.
Rolle, the late Hon. Mark.
Rolleston, Sir John F. L., Glen Parva Grange, Leicester.
Rothschild, The Hon. Walter, F.R.S., Tring Park, Herts.

St. Oswald, Lady, Appleby Hall, Doncaster.
Sanderson, Finlay, Esq., University College, Oxford.
Sawyer, Charles, Esq., 74 New Oxford Street, London.
Schlich, Sir William, F.R.S., 29 Banbury Road, Oxford.
Sherborne, Lord, Sherborne House, Gloucestershire.
Soames, A. G., Esq., Sheffield Park, Sussex.
Stanhope, The Hon. Richard, Revesby Abbey, Boston, Lincolnshire.
Stern, Capt. H. J. J., Bective House, Navan, Co. Meath.
Stewart, Lady Alice Shaw-, Ardgowan, Greenock, Scotland.
Stewart, Lady Octavia Shaw-, Fonthill Abbey, Tisbury, Wiltshire.
Stirling, J. A., Esq., 41, The Pryors, East Heath Road, Hampstead, London.
Stooke, J. E. Hellyar, Esq., 2 Palace Yard, Hereford.
Strickland, Algernon, Esq., Apperley Court, Tewkesbury.
Strickland, the late Sir Charles W., Bart.

Talbot, G. J., Esq., 36 Wilton Crescent, London.
Toronto, Canada, The University Library.
Tottenham, Col. C. G., Ballycurry, Ashford, Co. Wicklow.
Trench, R. C., Esq., Penrhyn Estate Office, Bangor, North Wales.
Trotter, John, Esq., Brickendon Grange, Hertford.
Turner, T. Warner, Esq., Langwith Lodge, Mansfield, Nottinghamshire.

Underdown, H. C. B., Esq., Buckenham Hall, Mundford, Norfolk.

Victoria, B.C., The Provincial Library.
Vienna, Die Dendrologische Gesellschaft für Oesterreich-Ungarn.
Vilmorin, M. Maurice L. de, 13 Quai d'Orsay, Paris.
Vilmorin, M. Philippe L. de, 23 Quai d'Orsay, Paris.
Vines, Prof., F.R.S., Botanic Garden, Oxford.

Waldo, E. G. B. Meade-, Esq., Stonewall Park, Edenbridge, Kent.
Watney, Daniel, Esq., 33 Poultry, London.
Watney, Herbert, Esq., M.D., Buckhold, Pangbourne, Berks.
Watney, Vernon J., Esq., Cornbury Park, Charlbury, Oxfordshire (two copies).
Wilding, E. H., Esq., Wexham Place, Stoke Poges, Buckinghamshire.
Wilkinson, C. J., Esq., Sebergham Castle, Cumberland.
Willmott, Miss, F.L.S., Warley Place, Great Warley, Essex (three copies).
Wilson, Sir Maurice Bromley-, Bart., Dallam Tower, Milnthorpe, Westmorland.
Woodward, Robert, Esq., Arley Castle, Bewdley.
Wythes, E. J., Esq., Copped Hall, Epping.

Yarborough, The Earl of, Brocklesby Park, Lincolnshire.

PRESENTATION COPIES

His late Majesty King Edward VII.
King Edward VII. Convalescent Home for Officers of the Navy and Army, Osborne, Isle of Wight.
The Royal Society, London.
The Linnean Society, London.
The Athenæum, Pall Mall, London.
The Bodleian Library, Oxford.
The University Library, Cambridge.
Harvard University, U.S.A.
The Imperial Japanese Bureau of Forestry.
Beevor, Sir Hugh R., Hargham, Norfolk.
Elrod, Prof. M. J., Missoula, Montana, U.S.A.
Elwes, A. L., Esq., Staple Grove, Beckenham.

POSTSCRIPT

BY

HENRY JOHN ELWES, F.R.S.

AND

AUGUSTINE HENRY, M.A.

In the Introduction to the first volume of this work, published in 1906, we stated the objects which we had in view, and which, during the seven years which have now elapsed, we have endeavoured to carry out to the best of our power. If the patience of our Subscribers has been unduly taxed, we can only say that the magnitude of the task which we set before us was even then hardly realised; and that the difficulty of discovering, identifying, describing, and figuring the rare and remarkable trees in Great Britain is one which grew with our knowledge, and with each succeeding volume. The want of order in this work, on which some of our reviewers have remarked, has been really of the greatest service; for by leaving the more difficult and little-known genera to the last, we have been able to make the work more complete and accurate than it would have been if every genus had been taken in its accepted botanical sequence; and though a few additions may be made to the earlier volumes, we know of no really important omissions in them.

Though some local botanists and arboriculturists have studied the native trees of their own counties with more or less care, British botanists, until recently, have taken little notice of the trees which form so conspicuous a feature in the vegetation and scenery of England; and in many counties, whose flora, birds, and insects have been most carefully and accurately studied by local naturalists, we have found no one who, apparently, knew or cared for the trees, and have had to depend largely on our own observations.

An immense quantity of foreign as well as British literature has been referred to, as evidenced by almost every page of the work; but a general bibliography seems unnecessary, as the references are fully given; as well as the authority for nearly every fact, opinion, or observation not made by ourselves.

As it is possible that in the future, questions may arise as to the correct nomenclature of some of the numerous trees that we have described and figured, it is well to say that the herbarium accumulated by us in the course of our work is preserved at Cambridge and at Kew, so that the actual specimens from which

the descriptions and identifications were made can be referred to in case of doubt.

It is impossible to acknowledge in full detail the help that we have received from landowners and their agents, foresters, gardeners, and friends in all parts of Great Britain which we have visited during the course of the work; but we have felt on many occasions that without this help the work would have been impossible.

Amongst those to whom we are most indebted for help, I must especially mention the following:—

Sir William T. Thiselton-Dyer, F.R.S., who has carefully read the proofs of all the volumes except the first, and whose suggestions and advice we have followed in many difficult questions; Mr. Charles Palmer of Stewkley Grange and Manchester, who has also read the proofs with extraordinary care; the Director and staff of the Royal Gardens at Kew, who from first to last have shown a personal interest in our work which has been of the greatest support and assistance. We must here call attention to the fact that the collection of living trees at Kew is, and we hope always will be, so far as its soil and climate will allow, the most complete, correctly named, and well-cared-for in Europe; while its unrivalled library and herbarium, where much of our work has been prepared, and the references checked, have been indispensable in connection with the living specimens.

The staff of the Botanical Department of the British Museum of Natural History, as well as the Directors of the Botanical Gardens at Edinburgh, Glasnevin, Oxford, and Cambridge have afforded us every facility for studying both the trees and herbaria in their charge, and we gratefully acknowledge their assistance.

In the United States we have received much help from the officials of the National Bureau of Forestry, and from many private individuals, amongst whom I must mention Prof. Elrod of the Montana University, Mr. Gifford Pinchot, the late Chief Forester of the United States, and especially Mr. Charles S. Sargent of the Arnold Arboretum, who has given us much valuable information and help on many occasions.

In Canada Messrs. J. M. and W. T. Macoun of Ottawa have been on many occasions most helpful and obliging.

In France we have to thank numerous friends for shewing us many of the finest trees and forests in all parts of the country; amongst them we are especially grateful to MM. Maurice and Philippe de Vilmorin of Paris, Prof. Flahault of Montpellier, M. Leon Pardé, Inspecteur des Eaux et Forêts of Beauvais, M. Hickel of Versailles, M. Guinier of Nancy, M. Jouin of Plantières near Metz, and Mr. Cecil Hanbury of La Mortola in Italy.

In Holland Mr. L. A. Springer of Haarlem, in Belgium Prof. Bommer of Brussels, M. Huberty, Inspector of Forests, Verviers, and the late Baron de Selys-Longchamps, in Germany the late Herr Späth of Berlin and the late Prof. Blasius of Brunswick, and the Directors of the Botanic Gardens we have visited in Germany, Russia, Italy, Sweden, Norway, Spain and Portugal, Bulgaria, and Servia, have all given us most valuable notes and assistance.

In Denmark we have also received much help and information from Forest Inspectors Mundt and Bramsen, who personally conducted us through many interesting forests and private arboreta.

In Japan I have on two occasions received unusual attention and assistance in visiting the most interesting forests, and in procuring good photographs of the trees, for which I shall be ever grateful both to the past and present Ministers of Agriculture, and especially to Dr. H. Shirasawa of Tokyo, and numerous other officials and friends.

Amongst the English landowners, who have afforded us the greatest assistance and kindness on all occasions, I must specially mention His late Majesty King Edward, to whom our work is dedicated, and whose fine trees at Windsor, Sandringham, Balmoral, and Osborne have been frequently mentioned in our pages. The Earl of Ducie, who during a long life has had the pleasure of seeing many rare trees planted by himself come to maturity, and who, perhaps better than any English landowner, has realised the importance of attending to his trees after they were planted. The late Sir Charles Strickland, who often told me that the pleasure of watching the growth of trees which he had himself raised and planted, was the one interest in life which remains undiminished in extreme old age. Sir Hugh Beevor, who has inherited a taste for arboriculture and forestry, and on many occasions has contributed most valuable notes and measurements of remarkable trees in many places. The Dukes of Argyll, Bedford, Northumberland, Portland, Richmond, and Wellington. The Marquesses of Bath, Lansdowne, Ripon, and Waterford. The Earls of Annesley, Bathurst, Bradford, Brownlow, Cawdor, Coventry, Darnley, Fortescue, Ilchester, Leicester, Manvers, Pembroke, Portsmouth, Powis, Radnor, Selborne, Spencer, and Yarborough. The Viscounts Falmouth and Powerscourt. The Lords Bagot, Barrymore, Clinton, Dynevor, Kesteven, Llangattock, Lovat, Methuen, Northbourne, Peckover of Wisbech, Penrhyn, Rayleigh, Redesdale, Sackville, Scarsdale, Sherborne, and Walsingham. Sir C. T. D. Acland, Sir E. Stafford Howard, Sir George Holford, Sir E. Loder, Sir John Stirling Maxwell, Sir Herbert Maxwell, Sir Frederick Moore, Sir John Ross-of-Bladensburg. The Hon. Vicary Gibbs, Mr. H. Clinton Baker, Mr. R. Birkbeck, Mr. F. R. S. Balfour, Brodie of Brodie, Mrs. Baldwyn Childe, Capt. D. Cameron of Lochiel, Major Dent, Mr. W. Steuart Fothringham, Major Lloyd, Col. Malcolm of Poltalloch, Mr. E. R. M. Pratt, Mr. C. Coltman Rogers, Dr. Herbert Watney, and Mr. R. Woodward, Jr.

For special information respecting the trees of Scotland we are indebted to Mr. John Renwick of Glasgow, and for notes on Irish trees to Mr. R. A. Phillips of Cork and Sir F. W. Moore.

The conditions which determine the successful cultivation of exotic trees in different parts of Great Britain are so complicated by local variations of soil, climate, and elevation that after many attempts I have failed to construct a map which would divide the country into arboricultural regions. The best guide to the possibility of growing any particular species in any given locality is to know

whether it has succeeded reasonably well in any place of similar soil and climate; and as we have recorded the accumulated experience of our predecessors, it may usually be presumed that if no degree of success has been attained it is only a waste of time and money to plant species which have died out or remained in a stunted condition. Generally speaking it may be said that there are four principal types of climate in Great Britain.

The first is characterised by a high summer and a low winter temperature, combined with a low average rainfall; and this includes all those districts in which wheat is the most important agricultural crop, namely the eastern counties as far north as the Humber, and the southern counties as far west as Dorset and the Severn Valley. In many parts of this region where, owing to the influence of sea air or elevation, late spring and early autumn frosts rarely occur, the best climatic conditions for the growth of most exotic trees are found.

Secondly, the south-western counties and the maritime districts of Wales, the greater part of Ireland and western Scotland, where the summer temperature is lower and the winters shorter and milder, and where the rainfall and the humidity of the air is much greater. In this region alone a great many of the rarer trees and shrubs thrive wherever suitable soil and shelter from wind are found; but the trees which require a high summer temperature and abundant sunshine to ripen their wood, such as walnuts, hickories, Catalpas, and many North American species, are not often successful, and do not attain large dimensions or ripen their seeds in normal seasons.

Thirdly, the north-eastern and midland counties and those districts of southern England where the summers are shorter, where late and early frosts are prevalent, or where the soil is too heavy or too wet to suit a great many exotic trees; but many exceptions will be found in this region, especially near the sea, and in this district may be included parts of Scotland bordering on the Moray Firth, where the climate is distinctly more suitable to arboriculture than in the northern and midland counties of England generally.

Fourthly, the mountains of central and northern England, Wales, Scotland, and Ireland, at elevations over 1000 feet, where only a few of the hardier conifers can be grown with much hope of success.

Next to climate, the geological formation and depth of the soil is the most important factor in the successful growth of trees; and this again is variable even in the districts where climate is favourable; so that we find the best instances of arboriculture are scattered in all parts of the country. Generally speaking, the soils which produce the finest hardwoods are on the old red sandstone and lower greensand formations; and though some species attain a large size on other soils, yet wherever heavy clay or thin rocky soils prevail, especially on limestone, many exotic trees will not grow at all, or become stunted and unhealthy as soon as their roots get into the subsoil. As a result of careful soil preparation trees may appear to thrive for a number of years, yet they eventually become sickly or die if nature has not provided a suitable subsoil. Want of knowledge or of attention to these two factors, has led in the past to immense waste of time and money in planting trees which are quite

unsuited to their surroundings, and we have seen numerous instances in all parts of Great Britain which prove how little man can do where nature does not favour his efforts.

Another point which has been insufficiently realised by most planters, but which my own experience has repeatedly proved, is the remarkable variation in the individual constitution of trees of the same species, even when raised from seeds of the same tree under precisely similar conditions. In a state of nature there is a continual struggle for existence among individuals under which only a few of the strongest survive, and these are the seed-bearers from which future generations arise; but when we sow a number of seeds under the most favourable conditions which we can devise, and protect them artificially in their youth against their natural enemies, or when we propagate trees by other means, which are often adopted not because they are the fittest but because they are the quickest and cheapest means of reproducing them, we obtain a variable percentage of weaklings which thrive only under the best conditions, and which when transplanted to less favourable environment are sure sooner or later to succumb. For this reason I have always advocated the raising of forest trees when possible from seed of known healthy parents growing in the same or a similar locality to that where they are to be planted, and rejecting in the nursery all but the most vigorous. This may prove a slower and more costly method than that of buying the trees from a nursery, but I believe it to be the most economical in the end wherever conditions are not very favourable for their growth. With regard to exotic trees which only ripen their seed in this climate in very favourable seasons, I have often found that the seedlings raised from imported seed are more vigorous than those raised from home-grown seed, but my observations, though they have been carried on since 1900, are insufficient to enable me to express a decided opinion on this subject.

When we consider how remarkably variable our climate is, it is clear that a great deal of the success of planting any trees which are more exacting as regards heat, sunshine, or moisture[1] than indigenous species, must depend on a good series of seasons in their youth; for if trees are severely checked by drought, or by late spring or early autumn frosts when young, they suffer much more than when older and better established. Therefore in planting exotic trees it is wise not to depend on one or two individuals, but to plant several of the same species in a group, with the object of selecting the most vigorous and well-shaped when they begin to crowd each other.

Another point which is often forgotten by planters of ornamental trees is the fact that in nature these grow gregariously or mixed with other trees, in more or less thick or shady woods, and not isolated in grass. To use a gardener's expression, "a well-furnished tree" such as a cedar, a Sequoia, or a beech with spreading branches resting on the ground, may be a very beautiful object on a lawn or in a park; but it is not the usual natural shape of these trees; and if the trunk is always

[1] As an instance I may say that at Colesborne the rainfall of June, July, and August, during which months most of the growth of the majority of trees is made, was, in 1911, 3.39 inches, with only 21 days on which rain fell, and in 1912, 22.30 inches, with only 21 days without rain.

sacrificed to the branches, we rarely get such magnificent boles as these trees are capable of producing when planted under more natural conditions.

Another point too often neglected by English arboriculturists is early and regular pruning, which, unless they are planted in close order, is necessary in the case of most broad-leaved and some coniferous trees, until they have attained a considerable size and age. Though the lower branches should not be cut off close to the trunk before it is thick enough to support a well-shaped crown, yet the earlier it is done after the tree has become established, the quicker and better is the wound healed; and the careful planter must continually watch that no branches are allowed to attain undue proportions at the expense of the trunk. With some trees pruning and shortening of large branches is best done in early spring before the sap rises; with others, in July or August, when the tree is in vigorous growth; but though art may do a great deal to form a well-shaped tree, yet unless the soil is deep enough and fertile enough to keep it in health, stunted and stag-headed trees will be the result.

The influence of grass on the roots of trees is a subject upon which a great deal of light has been thrown by the experiments carried on by the Duke of Bedford and Mr. Spencer Pickering.[1] Though opinions differ on the extent to which their conclusions apply to trees universally, and how far they are due to particular soils, yet there can be no doubt that as a general rule the soil should be kept free from grass for a distance of about three feet all round the trunk for some years at least. On the peculiar soil of Colesborne I have found that some trees, among which Scots and Corsican Pine are conspicuous, do not suffer when planted in a thick sward, and actually seem to grow faster and to be more healthy. I am inclined to believe that wherever the soil is deficient in fertility, grass over the roots of trees, though it may check their growth in dry seasons, is better in most cases than a bare soil which has been impoverished by cultivation. Good soil will overcome almost all other obstacles to the growth of trees, and this fact leads me to speak of another question which planters and foresters often insufficiently consider.

Is it more economical and profitable to plant land, which, like many of the natural woods and plantations in Great Britain, has been allowed to remain as woodland only because it was not thought good enough to cultivate; or to plant land which is producing more or less profitable crops? We rarely see the dimensions that trees are capable of attaining in Great Britain, except on the estates of families which for centuries have been rich enough to plant good land, and to leave trees standing after they have attained maturity; and though the largest trees are not always the most valuable, yet the highest quality of timber, which usually fetches a higher price per foot, is rarely produced on inferior land, whilst the quantity per acre that can be grown in a short time is the most important factor in the profit or loss of planting.

In forestry as in agriculture the best land is the most profitable and therefore the cheapest. But when I speak of good land I do not mean that the best land for farming is the best for trees, because trees root so much more deeply than agricultural plants that they can penetrate and feed where the roots of plants cannot reach; and on steep hill-sides especially, trees seem to thrive wherever the rock is suffi-

[1] *Thirteenth Report of the Woburn Experimental Fruit Farm*, London, 1911. See also *Ninth Report*, 1908.

ciently broken up, provided that it contains the chemical elements of fertility; so that the agricultural or grazing value of any particular spot often affords no indication of its value for tree-planting.

Though the world has now been nearly everywhere explored, and the number of trees capable of growing in Great Britain has been more than doubled by fresh introductions since Loudon wrote in 1838, it is very surprising how few, if any, of the newer introductions seem likely to supersede or even to equal our long-tried native and introduced trees. Though no one can be a stronger advocate than I am, both in principle and in practice, of the planting of a great variety of exotic trees, and though in localities where somewhat unusual conditions are found, some of these species—such as Japanese larch, Sitka spruce, Lawson and Nootka cypress, and Douglas fir—do seem likely to be more profitable than older introductions like the European larch, Silver and Spruce firs, yet I can hardly think of any broad-leaved tree, except some poplars which are not yet fully proved, and possibly the grey alder, which seems likely to have much economic value or to supersede our native oak, beech, ash, elm, and sycamore, which to timber merchants are at present the only trees really worth looking at, and which will grow to a large size in almost all parts of our islands. Whether time will prove this to be a fact or not, we have done our best to describe every tree as yet introduced, with the exception of some of the latest introductions from China.

When trees have passed the age of maturity and are beginning to decline in health they usually show it by the death of the upper branches, which is particularly noticeable on very heavy or very dry soils after a long hot summer. If there is no serious decay in the trunk, this decline may often be checked, for a considerable time at any rate, by a top-dressing of leaf-mould mixed with old rotten manure and fertile soil, spread about three inches deep over the area covered by the branches; but such dressing must not be too thick or too strong, especially in the case of conifers, for which pure leaf-mould is perhaps the best manure. When wounds caused by broken branches, fungi, or other injuries appear on the trunk, it is important to fill them as soon as possible. The same principles adopted in filling decayed teeth are perfectly applicable to trees, namely, to clear out all decayed wood as far as possible, to apply an antiseptic to the exposed surface, to fill up the cavity with cement, and to cover with lead any cracks or holes by which water can get into the trunk. When branches become dangerous or inclined to split off, they are often supported by iron rods, bands, and chains; and I believe that when this is done in such a way that the band can be loosened as the branch thickens, it is a safer and more permanent method than passing a rod through a hole in the branch and putting a nut on it to keep it in place.

There are many other special points in the cultivation of trees which only experience can teach, though the general principles are given in works on forestry and arboriculture; and in many cases these special points are dealt with in the pages of our work. Opinions vary and always will vary as to the best systems of planting, and the best mixture to adopt, which depend on the peculiar conditions we have to deal with; but in tree-planting, whether for economic or other objects, it cannot be

too strongly emphasised that a study of local conditions is always essential. The more a man knows of the risks and difficulties which planters have to contend with in most parts of the country, the less willing will he be to offer advice, or to form estimates of cost and expected profits based on experience which is not local. For this reason I look with suspicion on hastily considered working plans and estimates of costs and results which are not supported by local knowledge. Even in old-established forests abroad, where the expenses and profits are based on the experience of centuries, and where nothing is done without the approval of Government foresters, changes are constantly being made in practice to meet the changing conditions of the times; and when we remember that our long-established systems of woodcraft in England have been completely revolutionised in the last fifty years by changes in economic conditions, the duration of which cannot be foreseen, it seems evident that what we think right to-day may turn out to be wrong long before the trees we plant are mature.

Before concluding I should again like to offer a warning word on the question of planting and management for profit, as contrasted with planting for ornament, sport, and shelter. English landowners are sometimes reproached with ignorance and neglect of the principles of pure forestry; but it must always be remembered that the economic, social, and in many districts the climatic conditions of Great Britain, make planting for profit a very uncertain and often a very risky investment. In our work we have endeavoured to show the possibility of cultivating a great number of exotic trees which have not, and probably never will have, any economic value from the forester's point of view, because we believe that when planted in small quantities with sufficient knowledge of their cultural requirements, they will add greatly to the interest, beauty, and residential value of British country homes; and we have illustrated the finest examples of most of the trees which exist in Britain. We ought to aim as far as possible at planting those species which local experience has tested, in situations which are most suitable to them. This warning must apply not only to the rarer species, but to some which have been very extensively planted of late years by enthusiasts in arboriculture, who look only at the successes of others and refuse to look at the failures. I have myself learnt more from my failures than from my successes; and have never been able to understand why in so many cases people are unwilling to show or to write of their failures, when these are due—as they often are—to natural obstacles rather than to want of care or knowledge.

The future of arboriculture in Great Britain is a brilliant one, if landowners are not deterred from planting by ill-considered or hostile legislation; but the future of pure forestry—in England at least—is very problematical. For though there are districts where the land may—under State foresters working on a larger scale than private owners—produce a more profitable return under timber than when used for other purposes, yet I believe that these districts are so few and far between that the establishment of a State industry, financed by taxation, to compete with the long-established private industry of timber-growing would not be justified by any advantage that would result to the country. (H. J. E.)

In concluding our work there are a few points about which I think it advisable to add some explanatory remarks. First, with regard to its scope, it was intended at the outset to include only those trees which attain timber size in the British Isles. It was found, however, impossible in practice to draw a rigid line between the timber trees and the smaller trees, which like shrubs are cultivated for ornament or curiosity. In the case of genera, which comprise both large and small trees as well as shrubs, our treatment has not been logically uniform. All the species of oak in cultivation have been described in detail, because in this genus shrubs are of exceptional occurrence. On the other hand, only the larger maples have been the subject of separate articles, as it was evident that a brief notice would suffice for the shrubby species. In the case of genera of exceptional interest, as Pinus, Juniperus, Cephalotaxus, all the introduced species, even those of small size, have been treated in full.

The keys for the identification of species are based upon the characters of the twigs, leaves, and buds, and not upon those of the flowers and fruits, as has been usual in botanical works. The latter characters are often not available in the case of trees, the determination of which may be required when they are in the young state, or at some period of the year when flowers and fruit are not present.

When the preparation of the seventh volume was drawing near a close, we saw that it would be impracticable, without unduly deferring the completion of the work, to include many of the new species that of late years have been introduced from China and Japan. On this account, Eucommia, Tetracentron, Cercidiphyllum, Pistacia, Phellodendron, Idesia, Poliothyrsis, Davidia, etc., have been necessarily omitted. For obvious reasons, I was unable to take up the complete study of such genera as Cratægus, which is almost exclusively composed either of shrubs or small trees that are merely ornamental in character; and I have limited my account in this case to a full description of the two indigenous species. Generally speaking, the Conifers have been described exhaustively in our book; but certain rare kinds of which there are only a few specimens of small size in Cornwall and in the mild districts of Ireland, have been left untouched, as Podocarpus, Callitris, Tetraclinis, Widdringtonia, Dacrydium, and Phyllocladus.

Though, as just explained, all the species of trees in cultivation in England, Scotland, Wales, and Ireland, are not included, yet a vast number have been described, as is evidenced by the Index, which extends over 80 pages. The Index has been compiled with great care, and should prove of service to our readers, as it embraces, in addition to the common names and the usually accepted scientific names, nearly all the appellations which have been applied to the various species and their varieties and sports in countless lists, catalogues, and books. The compilation of this synonymy has been a heavy labour and a thankless task. The choice of the correct name of each species has not been always easy.

As some of the reviews of the published volumes criticise certain names which I have adopted, it will be well for me to explain my views on the vexed question of nomenclature. That in a work of this magnitude, I have refrained from the

invention of new names, except in one case for a species[1] and in two or three cases for hybrids,[2] gives me a claim to be heard on the subject. In the earlier volumes, I followed the Kew practice of the time, that of selecting as the correct name the oldest one, which had been used under the genus to which the species is now referred. In the latter volumes, I have followed, except in a few instances, the Vienna Rule, that of adopting the oldest specific name, no matter to what genus it had been attached. Most German and American botanists follow this rule "blindly," as one of them remarked to me.

As a result names which have been current for a century, not only in scientific books but in popular literature, have now to give way to supposed earlier names, which have been resuscitated from the works of writers whose descriptions are often so ambiguous as to render it impossible to say what species was actually meant. The strict application of the Vienna Rule is sometimes so difficult that the best authorities disagree thereon. As an example, we are bidden to change the name *Alnus glutinosa*, Gaertner, which has been used for the common alder for over a century in every botanical text-book and Flora. Certain botanists substitute for it the name *Alnus rotundifolia*, Miller, whilst one authority puts forth a strong claim for *Alnus vulgaris*, Hill.[3] This displacement of a well-known scientific name by an obscure one is a pedantic and harmful practice. Its absurdity is shown by the fact that some recent writers, who adopt under all circumstances the Vienna Rule, are obliged, in order to specify clearly the species which they mean, to use two names, the second of which is the old-established name in brackets. The common oak is called by these writers[4] "*Quercus Robur*, Linn. (*Q. pedunculata*)"; while the wych elm is cumbered[5] with the appellation "*Ulmus glabra*, Huds. = *U. montana*." The confusion of the new practice is doubled, when the Vienna name for a species happens to be (as in the last case) the same as the old-established name for another species of the same genus. Thus, no one now knows without some explanation which species of elm is meant by the term *Ulmus glabra*.

In order to avoid such confusion, I have preserved in certain cases the old-established name, if its use involves no ambiguity. I have thus kept up *Larix europæa*, *Larix americana*, *Larix leptolepis*, *Abies pectinata*, *Quercus pedunculata*, *Betula pubescens*, *Betula verrucosa*, a series of names which have been consecrated by long usage in books on botany, arboriculture, and forestry. If I am wrong in using these names, I err in company with nearly all the writers who have mentioned these trees during the last century.

The postponement to the last volume of the more difficult genera has enabled me to devote time, labour, and travel to their study; and has resulted in a clearer knowledge of the numerous cultivated kinds of elms and poplars, the systematic position of which has been the despair of botanists. The results of the experimental sowings of the seeds of various elms, which I made in 1909, together with a study

[1] Cf. *Populus Maximowiczii*, vol. vii. 1838.
[2] Cf. *Populus Lloydii*, vol. vii. 1830, *Ulmus Mossii*, vol. vii. 1865, note 2.
[3] Cf. Schneider, *Laubholzkunde*, ii. 890 (1912).
[4] Cf. Schneider, *Laubholzkunde*, i. 197 (1904).
[5] Cf. Tansley, *British Vegetation*, 148 (1911).

of the history of the Lucombe Oak and its descendants, have thrown much light on a class of trees, which though common in cultivation on account of their vigour of growth, are unknown in the wild state.

These trees undoubtedly originated as chance seedlings, due to accidental cross-fertilisation of two distinct species, and were immediately selected by observant nurserymen as desirable varieties to propagate. Trees like the Black Italian Poplar and the London Plane, which in botanical characters appear to be first crosses in each case, between an American and a European species, can be traced back to 1700, about which date the introduced species was long enough in the country to produce flowers and to fertilise the native species growing beside it.

Other trees, which I consider to be also first crosses, on account not only of their botanical characters but because they are unknown in the wild state, are:— the Common Lime, Huntingdon Elm, and Cricket-Bat Willow, the parents in their case being closely allied European species. All the preceding hybrids were produced accidentally; and similar cases occur periodically in certain nurseries, as at Plantières, near Metz, where two splendid hybrid poplars (*Populus Eugenei* and *P. robusta*) have been picked out of the seed-bed. The first to produce artificial crosses between forest trees was Klotzsch in 1845; and his experiments, though on a small scale, were successful in indicating that extra vigour of growth was obtainable with certainty.

Practically nothing, however, has been done, since his time, to improve the breeds of forest trees; and foresters have never even thought of the possibilities in this direction, though gardeners and farmers have shown the way for centuries. I suggested in a paper read on 7th April 1910 before the Linnean Society that artificial crossing should be tried in the Ash and Walnut, as the quality of the wood of these two valuable trees would be improved by more rapid growth.

During the past three years I have carried on cross-pollination of trees of certain kinds at Cambridge, in Kew Gardens, and near Exeter and Gloucester. These experiments have shown that there are obstacles in the way of obtaining successful results, owing to the difficulty of manipulation on trees swaying in the wind, and to the spring frosts which often injure the pollinated flowers. Moreover, suitable exotic trees, especially of the broad-leaved sorts, are hard to find, as those that exist rarely produce good flowers. I am convinced that such experiments could be carried on much more successfully in stations like Montpellier in France, or Washington in the United States, where suitable trees and a warm climate can be readily found. Nevertheless, I have raised a considerable number of hybrid seedlings, which are now under observation. First-crosses once obtained can readily be reproduced by cuttings or by layers; and the cost of propagation would be very moderate. That this is feasible, is shown by the splendid hybrid elms in Belgium and Holland, all of which are raised by layering in nurseries.

Many interesting problems, which had to be laid aside for the time, arose in the course of the researches which were undertaken in the work of preparation of the seven volumes. To some of these problems, especially those connected with the origin of sports and varieties, I hope to return. The belief is rapidly gaining

ground that all species of trees are comparable, in a greater or less degree, as regards their variation, to the remarkable instance of the Douglas Fir, the Rocky Mountain variety of which differs so much from that growing on the Pacific Coast, while between these two extremes lie a series of intermediate forms. Similar variation is well known in the case of *Pinus Laricio*, the geographical forms of which behave very differently in cultivation. Such differences probably exist in all species with a wide distribution; and in the future, care in the selection of seed may be the most important point in sylviculture.

All the bibliographical references in the work have been checked independently, and no effort has been spared to indicate with accuracy the source of our information, where it is not the result of our own observations. Though in the course of our labours, we have had the benefit of mutual criticism, it should be clearly understood that each of us is only responsible for the parts which are signed by his initials. It would be inaccurate to quote both our names, when only one of us has verified the fact or studied the question at issue. As an example,—"Elwes, in Elwes and Henry, *Trees of Great Britain*, v. 1179," is the correct citation for the account of *Cupressus lusitanica* in Portugal; whereas, "Henry, in Elwes and Henry, *Trees of Great Britain*, v. 1183," is responsible for the article on *Cupressus arizonica*. It will readily be seen, that while the purely botanical part (including the identification of specimens) has been done by me, that the other part, dealing with distribution, history, and cultivation, has been divided in varying proportions between the two authors. (A. H.)

ERRATA AND ADDENDA

Vol. i. p. vii, line 15. The English Elm was not introduced from Italy. Cf. vol. vii. p. 1907.

i. p. 2, line 32. **For** Dryander, in Ait. **read** Aiton.

The leaves of the North American beech are figured in vol. iii. Pl. 202, Fig. 6.

Rehder, in *Rhodora*, ix. 113 (1907), and in *Mitt. Deut. Dend. Ges.* 1907, p. 70, states that the correct name of the American beech is *Fagus grandifolia*, Ehrhart, *Beit.* iii. 22 (1788), and describes three varieties: (1) var. *typica*, Rehder; (2) var. *pubescens*, Fernald and Rehder; and (3) var. *caroliniana*, Fernald and Rehder, the latter having a sub-variety *mollis*.

i. p. 2, line 39. **For** north **read** the north.

i. p. 4, line 1. **Add** *Fagus Hohenackeriana*, Palibin, in *Bull. Herb. Boiss.* viii. 378 (1908), is probably a form with large leaves of *F. orientalis*, Lipski.

i. p. 6, note 2, line 2. **Omit** the hazel, the cotyledons of which are not aerial. Cf. vol. iii. p. 521.

i. p. 8, line 40. This is var. *Rohanii*, Masek, in *Mitt. Deut. Dend. Ges.* 1905, p. 196 and 1908, p. 140, described as a purple beech with deeply cut leaves like those of var. *quercoides*, from a tree of which it is said to have arisen through pollination by a purple beech that stood near.

i. p. 10, line 21. The Weeping Beech at Endsleigh is figured in vol. ii. Pl. 58A.

i. p. 13, line 31. **For** Lyons-le-Forêt **read** Lyons-la-Forêt.

i. p. 17, line 42. **For** Buckholt **read** Buckhold.

i. p. 29, line 13. **For** *Vilmoriana* **read** *Vilmoriniana*.

i. p. 30, note 1. **For** 14 **read** 15.

i. p. 31, note 1. **Add** vol. ii. Pl. 126, Fig. 3.

i. p. 32, line 2. **For** *Japan* **read** *Japon*.

i. p. 38. Concerning *Sophora japonica*, var. *pendula*—

Bretschneider, in *Journ. N. China Br. R. Asiat. Soc.* xv. 15 (1880), states: "The Chinese produce this tree artificially by causing two young trees of *Sophora japonica*, growing close together, to join by grafting, and then turning upwards the roots of one of them." De Vries, *Mutation Theory*, 101 (1911), says, however, that the Weeping Sophora originated in Joly's nursery at Paris in 1800.

i. p. 38, note 1. This note is to be deleted, as the plate mentioned has not been published.

Vol. i. p. 44. *Araucaria araucana*, Koch, is the correct name of the Chilean Araucaria, according to the Vienna Rules.

i. p. 44, line 2. **For** iv. 2432 (1844) **read** iv. 2432 (1838).

i. p. 44, line 4. **For** Rich. **read** Richard.

i. p. 44, line 5. **For** Mirb. **read** Mirbel.

i. p. 57, line 31. **For** develops **read** develop.

i. p. 64, line 4. **For** var. ? *chinensis* **read** var. ? *chinense*.

i. p. 65, line 2. **For** *tulipifera* **read** *Tulipifera*.

i. p. 65, line 8. **After** leaves **insert** (Vol. iii. Pl. 204, Fig. 7).

i. p. 66, line 30. **After** buds **insert** (Vol. ii. Pl. 126, Fig. 1).

i. p. 76, line 33. **Omit** opening red.

i. p. 76, line 37. **Omit** the buds open green, and

i. p. 77, line 1. *Picea morindoides* is fully described under the correct name, *Picea spinulosa*, Henry, in vol. vi. p. 1392. Its native country is Sikkim and Bhutan.

i. p. 80, line 37. **For** Serajevo **read** Sarajevo.

i. pp. 85, 89. If, as is probable, both the Ajan spruce (*Picea ajanensis*) and the Hondo spruce (*Picea hondoensis*) constitute only one species, its correct name is *Picea jezoensis*, Carrière.

i. p. 85, line 16, and i. p. 89, line 13. It is doubtful if the distinctions here noted, as regards the colour of the opening buds, are valid. In the specimens of *P. hondoensis* which I have examined, the buds open with a slightly reddish tinge.

i. p. 88, line 10. **For** *tremula* **read** *Sieboldii*.

i. p. 92, line 26. The specimens in the Kew Herbarium with pubescent branchlets, from the Columbia river, which are mentioned as a variety of *Picea sitchensis*, must be referred to *Picea Engelmanni*.

i. p. 93, line 3. **After** 1892 **insert** xiv. 184.

i. p. 99, line 6. **For** *Pruminopitys* **read** *Prumnopitys*.

i. p. 100, line 32. *Taxus canadensis*, Marshall, is undoubtedly a distinct species, and is peculiar not only in its shrubby habit but in having monœcious flowers.

i. p. 107, line 21. **For** 53 **read** 31.

i. p. 107, line 22. **For** the Hokkaido **read** Hokkaido.

i. p. 110, line 32. **For** 58 **read** 34.

i. p. 111, lines 13, 14. **For** *Chesthuntensis* **read** *Cheshuntensis*.

i. p. 114, line 18. **After** mentioned above **add** (p. 107).

i. p. 117, line 24. **For** Low **read** Lowe.

i. p. 117, line 32. R. J. Moss, in *Scient. Proc. R. Dublin Soc.* xii. 92 (1909), found 0.6 per cent of taxine in the leaves of the Irish yew (var. *fastigiata*) as compared with 0.12 per cent in the leaves of the female common yew and 0.18 per cent in those of the male common yew, recorded by Thorpe and Stubbs in *Journ. Chem. Soc. Trans.* 1902, p. 874. Moss refers to a case, in which pheasants, which are believed to eat common yew with impunity, were poisoned by the leaves of the Irish yew.

i. p. 120, line 35. **For** 54, 55 **read** 32, 33.

Vol. i. p. 122, line 22. **For** Low **read** Lowe.
i. p. 123, line 9. **For** Whittinghame **read** Whittingehame.
i. p. 132, line 34. The article on Distribution in China should be signed (A. H.).
i. p. 139, line 1. **For** Hempsted **read** Hemsted.
i. p. 139, line 28. **For** Worcestershire **read** Herefordshire.
i. p. 142, line 17. The species of the sections *Aucuparia* are treated in detail in vol. vi. p. 1574.
i. p. 142, line 25. **For** *Pyrus thianschanica*, Regel, **read** *Pyrus tianschanica*, Franchet.
i. p. 142, line 30. **For** Torrey and Gray **read** De Candolle. See vol. vi. p. 1574.
i. p. 142, line 32. *Pyrus sambucifolia.* **Add** the following note :—Cf. vol. vi. p. 1574, note 3.
i. p. 144, line 32. **For** Linnæus **read** Ehrhart.
i. p. 148, line 19. **For** Mountmorris **read** Mountnorris ; **for** rector **read** late vicar.
i. p. 148, line 23. **For** Lee's **read** Lees.
i. p. 149, line 33. **For** Connaught **read** Albany.
i. p. 149, line 34. **For** Snell **read** Smelt.
i. p. 159, line 3. **For** 915 **read** 912.
i. p. 175, line 26. **For** Seeman **read** Seemann.
i. p. 177, last line. **For** *uniflora* **read** *aquatica* (cf. vol. iii. 513).
i. p. 182, and note 1. *Thuja*, the spelling adopted by Linnæus, *Sp. Pl.* 1002 (1753), is to be preferred to that of *Thuya.*
i. p. 184, line 8. **For** *non* A. Murray **read** not Balfour in A. Murray.
i. p. 192, lines 6 and 15, and i. 198, line 16. **For** *Retinospora* **read** *Retinispora.* Regarding the correct spelling of the word, see vol. v. p. 1146, note 2.
i. p. 195. The correct name, according to the Vienna Rules, of *Thuya japonica*, Maximowicz, is *Thuya Standishii*, Carrière.
i. p. 196, line 1. **For** Komaror **read** Komarov.
ii. p. vi, last line. **Insert** a comma between Ailanthus and Cladrastis.
ii. p. 202, line 36. **For** *Cryptomera* **read** *Cryptomeria.*
ii. p. 202, line 4. **For** *Thoujopsis* **read** *Thujopsis.*
ii. p. 203, last line. **Read** *Thujopsis Hondai*, A. Henry.
ii. p. 208, line 41. **For** *A.* **read** *Æ.*
ii. p. 218, line 10. **For** *A.* **read** *Æ.*
ii. p. 225, line 6. **Add** the note :—*Pavia rubra*, Poiret, in Lamarck, *Ency.* v. 94 (1804), is *Æsculus Pavia* (cf. p. 207).
ii. p. 225, line 17. **For** *A.* **read** *Æ.*
ii. p. 228, line 34. **For** Maximowicz **read** Masters.
ii. p. 234. It will probably be better to adopt for this species the name *Tsuga heterophylla*, Sargent, as the correct one under the Vienna Rules.
ii. p. 240, line 9. **For** *loc. cit.* **read** *Timber Trees and Forests of North Carolina*, 1898.
ii. p. 244. The correct name for this species is *Tsuga dumosa*, Sargent.
ii. p. 282. Moss, in *Journ. Bot.* 1910, p. 6, and Schneider, *Laubholzkunde*, i. 197 (1904), adopt the name, *Quercus Robur*, Linnæus, for the pedunculate or common oak.
ii. p. 282, line 25. **After** Branchlets **insert** (Pl. 78, Fig. 1).

Vol. ii. p. 283, line 3. **After** Leaves **insert** (Plate 79, Fig. 1).

ii. p. 285, line 12. **For** (1844) **read** (1838).

ii. p. 285, line 15. **For** *comptonæfolia* **read** *comptoniæfolia*.

ii. p. 288, line 30. **For** Boenn. **read** Boenninghausen. A fuller account of the hybrid oak, *Quercus intermedia*, Boenninghausen, is given by Dr. C. E. Moss, in *Journ. Bot.* 1910, pp. 1, 34, plate 502.

ii. p. 291, line 14. *Quercus sessilis*, Ehrhart, cannot be adopted as the correct name of the sessile oak, as it was unaccompanied by any description. Cf. Moss, in *Journ. Bot.* 1910, p. 2, and Schneider, *Laubholzkunde*, i. 196 (1904), and ii. 901 (1912).

ii. p. 291, line 22. **After** Branchlets **insert** (Pl. 78, Fig. 2).

ii. p. 291, line 25. **After** Leaves **insert** (Pl. 79, Fig. 8).

ii. 294, line 2. **Read** *Quercus lanuginosa*, Lamarck, *Fl. Franc.* ii. 209 (1778); Thuillier. **Insert** the following reference as a new line:—*Quercus Robur*, var. *lanuginosa*, Lamarck, *Encyc.* i. 717 (1783).

ii. p. 376, line 18. **For** unlikely **read** likely.

ii. p. 379, title. **Add** Dahurian Larch.

ii. p. 382, line 5. **Insert** A remarkable tree at Henham Hall, Suffolk, which according to the Earl of Stradbroke was planted between 1790 and 1803, is grafted on a common larch stock, forming a trunk about 6 ft. high and 7 ft. 4 in. in girth. It divides into numerous branches, which extend horizontally for a distance of about 100 ft., supported on larch poles. None of the branches rise more than two or three feet above this level; and when Elwes saw the tree in August 1909, they were covered with new and old cones.

There are two good specimens of the Dahurian larch at Stanage Park, Herefordshire, which measured about 80 ft. by 5 ft. in 1910. They were planted as *Larix pendula* in 1836.

ii. p. 383, title. **Add** Kurile Larch.

ii. p. 384, title. **Add** Japanese Larch.

ii. p. 393, note. **Insert** reference [1].

ii. p. 398, line 27. **For** *albertiana* **read** *Albertiana*.

ii. p. 409, line 18, and ii. 410, line 18. The form of *Pinus Laricio*, which occurs in the mountains of the central, north-eastern and south-eastern provinces of Spain is identical with that of the Cevennes and Pyrenees, and is to be referred to var. *tenuifolia*. The best account of the *Pinus Laricio* of Spain is given by S. E. Cook, *Sketches in Spain*, ii. 228, 234, 237, 244 (1834); and the name *P. hispanica*, Cook, *op. cit.* 234, may be added to the synonymy of this tree. Laguna, *Flora Forestal Española*, i. 80 (1883), gives full details of its distribution.

ii. p. 424, line 6. **Omit** rarely. **For** 6 **read** 8.

ii. p. 428, line 23. **For** *Guilandina diocus* **read** *Guilandina dioica*.

ii. p. 433, line 6. **After** regular **insert** full stop.

ii. p. 435, line 11. **Insert** A tree standing close to Weston Birt House, measured by Elwes in October, 1912, was 47 ft. by 3½ ft.

Vol. ii. p. 437, line 18. **For** DIPTERA (*sectio nova*) **read** DIPTERA, A. Henry (*sectio nova*).

ii. p. 438, line 26. **For** *Juglans fraxinifolium* **read** *Juglans fraxinifolia.*

iii. p. 452, line 23. **Add** Interesting details concerning the flowers, cones, and seedlings, as well as the rate of growth of the cedars, are given by Hutchison, in *Trans. Roy. Scott. Arbor. Soc.* xiii. 200 (1893).

iii. p. 452, line 24. The seedling here described was that of *Pinus halepensis*; and this paragraph should be transferred to vol. v. p. 1100.

iii. p. 471, line 12. **For** last January **read** in January 1907.

iii. p. 475, line 25. **After** now **add** (1907).

iii. p. 480, line 23. **For** *albertiana* **read** *Albertiana.*

iii. p. 485, line 25. **For** Endlichler **read** Endlicher.

iii. p. 489, line 10. **For** 1888 **read** 1870.

iii. p. 489, line 27. **For** *Thuya Craigana*, Murray, **read** *Thuja Craigana*, Balfour, in Murray. The correct name of the Incense Cedar of North America is *Libocedrus Craigana*, Low, *ex* R. Brown, in *Trans. Bot. Soc. Edin.* ix. 373 (1868). Cf. A. Henry, in *Gard. Chron.* liii. 325 (1913).

iii. p. 490, line 30. **For** Murray **read** Balfour, and **for** Thuya **read** Thuja.

iii. p. 492, line 35. **For** Park **read** Place.

iii. p. 494, note 2. The new species from Formosa has been named *Cunninghamia Konishii*, Hayata, in *Gard. Chron.* xliii. 194 (1908). Cf. Clinton-Baker, *Illust. Conif.* iii. 84 (1913), and Elwes, in *Quart. Journ. Forestry*, vi. 274 (1912). It has not yet been introduced.

iii. p. 513, note 1. **For** 1904 **read** for 1903. **Add** Cf. vol. i. p. 177 and note 3.

iii. p. 540, line 29. **For** *Ostrya Ostrya*, Sargent, **read** *Ostrya Ostrya*, Karsten, *Deutsch. Fl.* 20 (1895); Sargent.

iii. p. 545, lines 1 and 23; 546, lines, 8, 11, 21, 24, and 37; 547, lines 9, 11, and 16; 548, line 13; 549, line 1; 550, line 18; 553, line 29. **For** Oerstedt **read** Oersted.

iii. p. 553, line 21. **After** now **add** (October, 1907).

iii. p. 553, line 33. **For** Foster **read** Forster.

iii. p. 558, note 1. *Arbutus canariensis* is said, by W. Fitzherbert in *Gard. Chron.* lii. 44 (1912), to be 30 ft. high at Abbotsbury. It is perfectly hardy at Rostrevor, where I saw a shrub 10 ft. high in May 1913.

iii. p. 563, line 33. **For** *Brit.* 1119 **read** *Brit.* ii. 1119.

iii. p. 564, line 28. **For** Klotzch **read** Klotzsch.

iii. p. 565, line 31. **For** *procera*, Lindley, **read** *procera*, Douglas, *ex* Lindley.

iii. p. 573, line 27. **After** var. *scotica* **add** A. Henry.

iii. p. 576, note 2. **Add** Cf. vol. v. p. 1130, note 2.

iii. p. 586, line 5. **For** 162 **read** 131.

iii. p. 595, line 23. **For** *Primer* **read** *Pruner.*

iii. p. 599, line 5. **For** Schneider *ex* **read** Schneider, *Laubholzkunde*, i. 803 (1906);

iii. p. 600, line 17. **For** *cordifolia*, Schneider, *ex* **read** *cordiformis*, Schneider, *Laubholzkunde*, i. 803 (1906), and ii. 1008 (1912);

iii. p. 601, line 32. **For** Schneider *ex* **read** Schneider, *Laubholzkunde* i. 803 (1906);

Vol. iii. p. 604, note. **For** Schneider by **read** Schneider, *Laubholzkunde*, i. 803 (1906) and ii. 872 (1912);

iii. p. 605, line 29. **For** Schneider *ex* **read** Schneider, *Laubholzkunde*, i. 804 (1906);

iii. p. 620, line 18. The evidence is now almost conclusive that *Platanus acerifolia*, Willdenow, the London Plane, is of hybrid origin, the parents being *P. occidentalis*, Linnæus, and *P. orientalis*, Linnæus.

iii. p. 627, line 5. **For** *hybridus* **read** *hybrida*.

iii. p. 640, note. **For** *mandschuricum* **read** *mandshuricum*.

iii. p. 642, line 31. **For** *villosa* **read** *villosum*.

iii. p. 652, line 22. **For** *austriaca* **read** *austriacum*.

iii. p. 654, line 30. **After** paces **add** (Plate 185).

iii. p. 657, line 38. **For** sugar maple **read** common sycamore.

iii. p. 664, note 3. **For** 1889 **read** 1899.

iii. p. 669, line 20. **For** M. E. Louis **read** M. Jouin.

iii. p. 677, line 24. **For** *nigra* **read** *nigrum*.

iii. p. 690, line 31. **For** trees, **read** trees (Plate 195).

iii. p. 703, note. **Add** *Silva of California*, 143 (1910).

iii. p. 706, line 7. **For** he wrote **read** this was written.

iii. p. 706, line 35. **After** now **add** (1907).

iii. p. 707, line 5. **For** 106 **read** 196.

iii. p. 709, line 27. **After** now **add** (1907).

iii. p. 709, line 28. **After** now **add** (1907).

iv. p. 714, line 23. **For** all other conifers by **read** all other conifers except Keteleeria by. Cf. vol. vi. 1473.

iv. p. 728, line 25. **Insert** The Marquess of Bath informed Elwes in 1910 that Col. Thynne had measured a silver fir near the house at Longleat which was 144 ft. by 17 ft. 4 in. in 1909.

iv. p. 731, note 2. **For** 1896 **read** 1894.

iv. p. 739, line 21. **For** *Panachaica* **read** *panachaica*.

iv. p. 747, line 33. **For** a **read** at.

iv. p. 756, line 15. **For** inch **read** inches.

iv. p. 782, line 2. **For** 1840 **read** 1839.

iv. p. 812, line 37. **For** *Pseudotsuga japonica*, Sargent, **read** *Pseudotsuga japonica*, Beissner, in *Mitt. Deut. Dend. Ges.* 1896, p. 62; Sargent.

iv. p. 817, line 22. **For** in the Yellowstone Park in **read** from the Yellowstone Park in Wyoming to.

iv. p. 818, line 11. **For** 3 **read** 1.

iv. p. 824, line 10. **For** pine **read** fir.

iv. p. 854, lines 9, 10. **For** *Icon. Forest. Japon.* **read** *Icon. Ess. Forest. Japon.*

iv. p. 854, line 12. **For** Seeman **read** Seemann.

iv. p. 860, line 20. **For** 898 **read** 900.

iv. p. 862, line 1. **For** 907 **read** 905.

iv. p. 862, line 5. **For** 904 **read** 912.

iv. p. 862, line 19. **For** *longicuspis*, Blume, **read** *longicuspis*, Siebold and Zuccarini.

Vol. iv. p. 862, line 36. **For** 906 **read** 907.
iv. p. 862, note 1. **For** 21 **read** 25.
iv. p. 863, line 15. **For** 905 **read** 906.
iv. p. 876, line 2. **For** 124 feet **read** 97 feet.
iv. p. 884, line 5. Schneider, *Laubholzkunde*, ii. 832 (1912) adopts the earlier name, *Fraxinus obliqua*, Tausch, in *Flora*, xvii. 521 (1834) for *F. Willdenowiana*, Koehne; and states that Lingelsheim identifies it with a wild specimen found by Bornmüller in Anatolia.
iv. p. 904, line 13. **For** Hildenley at **read** Hildenley in.
iv. p. 912, line 33. **For** 265 **read** 264.
iv. p. 915, line 21. **For** *Pittcursii* **read** *Pitteursii*.
iv. p. 918, line 8. **For** Hertfordshire **read** Herefordshire.
iv. p. 918, line 38. **For** University Park **read** Christ Church Meadows.
iv. p. 919, line 10. **For** 61 feet in girth **read** 61 feet in height.
iv. p. 922, line 25. **For** Stukeley **read** Stewkley.
iv. p. 940, line 17, and note 2. The variety in Japan has been described as a distinct species, *Alnus serrulatoides*, Callier, in Fedde, *Repert.* x. 229 (1911).
iv. p. 946, line 24. **For** *montrosa* **read** *monstrosa*.
iv. p. 952, line 16. **For** *multinervis*, Schneider, **read** *multinervis*, Callier, *ex* Schneider.
iv. p. 953, line 24. **Delete** comma **after** *Flora*.
iv. p. 963, note 2. **For** *Eriophes* **read** *Eriophyes*.
iv. p. 971, line 21. **For** 225 **read** 255.
iv. p. 989, line 6. **For** *dahurica* **read** *davurica*.
iv. Plate 264, Fig. 16. **For** lancelotata **read** lanceolata.
v. p. 1013, line 15. **For** Bewdley **read** Bromsgrove.
v. p. 1029, note 1. **For** *Rusticanum* **read** *Rusticum*.
v. p. 1031, line 24. **For** Burwood House, near Cobham, Surrey, **read** Bearwood, near Wokingham.
v. p. 1080, note 7. **For** saved **read** sowed.
v. p. 1100, line 24. **For** *Pithyusa* **read** *pithyusa*.
v. p. 1100, line 31. **For** *Eldarica* **read** *eldarica*.
v. p. 1102, line 38. **After** *P. halepensis* **insert** (Plate 287).
v. p. 1103, note 3. **For** Strangways **read** Steven. Cf. p. 1100 and note.
v. p. 1107, line 32. **For** Solander in Aiton **read** Aiton.
v. p. 1113, line 12. **For** Solander in Aiton **read** Aiton.
v. p. 1124, line 36. **For** Burwood House, Surrey, **read** Bearwood, Berks.
v. p. 1130, note 2. **For** Klotsch **read** Klotzsch.
v. p. 1134, line 26. **For** *Mackintoshiana* **read** *Macintoshiana*.
v. p. 1139, line 23. **For** *Aboretum* **read** *Arboretum*.
v. p. 1140, line 1. **For** Solander in Aiton **read** Aiton.
v. p. 1142, line 5. **For** 5 ft. 3 in. **read** 5.23 in.
v. p. 1142, line 6. **For** 6 ft. 4 in. **read** 6.4 in.; **for** 8 ft. 3 in. **read** 8.3 in.

Vol. v. p. 1150, line 9. *Cupressus Hodginsii*, Dunn, has been made the type of a new genus, and is now known as *Fokienia Hodginsii*, A. Henry and H. H. Thomas, in *Gard. Chron.* xlix. 66, 84, figs. (1911). Cf. Clinton-Baker, *Illust. Conif.* iii. 85 (1913), who gives particulars regarding its introduction into cultivation.

v. p. 1179, note 1, line 4. **For** Parlatore **read** Antoine.

v. p. 1188, line 18. **For** Maichi **read** Imaichi.

v. p. 1200, line 28. **Insert** (H. J. E.).

v. p. 1203, note 2. **For** *pygmea* **read** *pygmæa.*

v. p. 1229, note 5. **For** *schochiana* **read** *Schochiana.*

v. p. 1235, note 2. **After** Small, **read** in *Bull. Torrey Bot. Club*, 1901, p. 157.

v. p. 1257, line 21. **For** 317 **read** 318.

v. p. 1257, line 24. **For** 318 **read** 317.

v. p. 1289, between lines 19 and 20. **Add** as a synonym, *Quercus austriaca sempervirens*, Hort., a name by which this oak is still occasionally known in some nurseries.

v. p. 1315, line 17. **For** *cerquhino* **read** *cerquinho.*

vi. p. 1372. Two varieties of the Hondo spruce, vars. *reflexa* and *acicularis*, have recently been described by Shirasawa and Koyama, in *Tokyo Bot. Mag.* xxvii. 129, pl. ii. figs. 1-17 (1913).

An allied species, *Picea Koyamai*, Shirasawa, was published in *Tokyo Bot. Mag.* xxvii. 128, pl. ii. figs. 28-35 (1913).

vi. p. 1374, line 3. **Add** Shirasawa and Koyama describe and figure *Picea Maximowiczii* in *Tokyo Bot. Mag.* xxvii. 130, pl. ii. figs. 18 to 27 (1913).

vi. p. 1380, line 25. **For** Solander in Aiton **read** Aiton.

vi. p. 1411, line 3. **For** Timbal **read** Timbal-Lagrave.

vi. p. 1481, line 3; 1483, line 6; 1485, line 11; 1487, line 22; 1489, lines 12 and 23; 1490, line 29. **For** *Bull. Soc. Dend. France*, i. **read** *Bull. Soc. Dend. France*, ii.

vi. p. 1487, line 18 and note 2. It will be advisable to adopt for this species the oldest name, *Catalpa ovata*, Don, and to abandon that of *C. Kaempferi.* Rehder, in Sargent, *Plant. Wilson*, ii. 304 (1912) agrees with me that this species is truly wild in Central China, and that *C. Henryi*, Dode, cannot be maintained even as a variety.

vi. p. 1489, line 24. *Catalpa Duclouxii*, Dode, and *C. sutchuenensis*, Dode, in *Bull. Soc. Dend. France*, ii. 204 (1907), are considered by Rehder, in Sargent, *Plant. Wilson.* ii. 304 (1912), to be identical, and constitute a glabrous variety of *C. Fargesi*, Bureau, which varies much in pubescence.

vi. p. 1569, line 11. **For** Solander in Aiton **read** Aiton.

vi. p. 1580, note. **Add** The rowan (*Pyrus Aucuparia*) is called quicken tree in Wicklow and other parts of Ireland.

vi. p. 1585, line 1. Schneider, *Laubholzkunde*, i. 806 (1906), adopts for this species the name *Magnolia virginiana*, Linnæus, *Sp. Pl.* 535 (1753), instead of *Magnolia glauca.*

vi. p. 1616, note 2. **For** *E. Gunnii* **read** *E. coccifera.*

vii. p. 1736, note 3. **For** Chevallier **read** Blin. Cf. *Bull. Dend. Soc. France*, 1913, p. 122.

(A. H.)

INDEX

Abeel (Abele) tree, vii. 1780, 1783
„ etymology, vii. 1780 note 1
Abelicea, Reichenbach, iv. 914
Abelicea hirta, Schneider, iv. 920
„ *Keaki*, Schneider, iv. 920
„ *ulmoides*, Kuntze, iv. 915
Abelude n'zān tree, v. 1321
Abies, Bentham et Hooker, vi. 1473
„ A. L. de Jussieu, ii. 345
Abies, Linnæus, iv. **713**
„ key to species, iv. 715
Abies, Linnæus (Spruce Firs), i. 75
„ Poiret, iii. 451
Abies *acicularis*, Maximowicz, vi. 1372, 1373
„ *aclada*, Salvi, vi. 1342
„ *ajanensis*, Lindley and Gordon, i. 85
„ *alba*, Michaux, vi. 1380
„ „ Miller, iv. 720
„ *Albertiana*, A. Murray, ii. 234
„ *Alcockiana*, Gordon, vi. 1372
„ *Alcoquiana*, Veitch, i. 90; vi. 1372
„ amabilis, *Forbes*, iv. **782**, 717, 787
„ „ British Columbia, tree in, iv. 783, Pl. 220
„ „ distribution and history, iv. 782
„ „ remarkable trees, iv. 784
„ *amabilis*, Murray, iv. 773
„ *Apollinis*, Link, iv. 723, 739, 740
„ *Araragi*, Loudon, ii. 246
„ *arctica*, Murray, vi. 1381
„ *arizonica*, Merriam, iv. 800, 801
„ *atlantica*, Lindley and Gordon, iii. 469
„ *baborensis*, Letourneux, iv. 737
„ balsamea, *Miller*, iv. **803**; i. 96; iv. 716, 807
„ „ distribution, iv. 804
„ „ in England, iv. 805
„ „ in Norway, iv. 805
„ „ in Scotland, iv. 805
„ „ remarkable trees, iv. 805
„ „ resin, iv. 805
„ „ timber, iv. 805
„ „ var. Hudsonia, iv. **804**
„ „ macrocarpa, iv. **804**
„ *balsamifera*, Michaux, iv. 803
„ *bicolor*, Maximowicz, vi. 1372, 1373
„ *bifida*, Siebold and Zuccarini, iv. 762
„ *bifolia*, Murray, iv. 800

Abies—*continued*
„ brachyphylla, *Maximowicz*, iv. **765**, 715, 717, 764, 768
„ „ cultivation, iv. 767
„ „ distribution, iv. 766
„ „ identification, iv. 766
„ bracteata, *Nuttall*, iv. **796**; i. 83; iv. 713 note 1, 715, 716
„ „ cultivation, iv. 798
„ „ distribution and history, iv. 797
„ „ Eastnor Castle, tree at, iv. 798, Pl. 224
„ „ remarkable trees, iv. 798
„ *Brunoniana*, Lindley, ii. 244
„ *canadensis*, Michaux, ii. 239
„ „ Miller, vi. 1380
„ *carpatica*, Lawson, vi. 1337
„ *Cedrus*, Poiret, iii. 453
„ cephalonica, *Loudon*, iv. **739**, 713 note 3, 715, 732
„ „ Barton, tree at, iv. 742, Pl. 214
„ „ Blairadam, trees at, iv. 743
„ „ cultivation, iv. 741
„ „ distribution, iv. 740
„ „ in England, iv. 742
„ „ in Ireland, iv. 743
„ „ in Scotland, iv. 742
„ „ remarkable trees, iv. 742
„ „ var. Apollinis, iv. **740**, 715, 741 and note 6, 743
„ *chinensis*, Franchet, ii. 229 note 1
„ cilicica, *Carrière*, iv. **744**, 716 note 1, 717 note 3, 718
„ „ cultivation, iv. 745
„ „ distribution, iv. 744
„ *cærulea*, Forbes, vi. 1382
„ *commutata*, Murray, vi. 1387
„ concolor, *Lindley and Gordon*, iv. **777**, 719, 745, 779, 801
„ „ cultivation, iv. 778
„ „ history and distribution, iv. 778
„ „ var. aurea, iv. **778**
„ „ brevifolia, iv. **778**
„ „ falcata, iv. **777**
„ „ glabosa, iv. **777**
„ „ *lasiocarpa*, iv. 779
„ „ *Lowiana*, iv. 779

Abies—*continued*
„ *concolor*, Sargent, iv. 779
„ *curvifolia*, Salisbury, vi. 1380
„ *Davidiana*, Franchet, vi. 1475
„ Delavayi, *Franchet*, iv. 719
„ *densa*, Griffith, iv. 751 note, 752
„ *denticulata*, Michaux, vi. 1375
„ *Deodara*, Lindley, iii. 476
„ *diversifolia*, Maximowicz, ii. 247
„ *Douglasii*, Lindley, iv. 814
„ „ var. *macrocarpa*, iv. 812
„ *dumosa*, Loudon, ii. 244
„ *Eichleri*, Lauche, iv. 768, 769
„ *Engelmanni*, Parry, vi. 1387
„ „ var. *glauca*, vi. 1390 note 3
„ „ *pseudopungens*, vi. 1387 note
„ *excelsa*, De Candolle, vi. 1337
„ „ var. *alpestris*, vi. 1360
„ „ *Clanbrassiliana*, vi. 1343
„ „ *Cranstonii*, vi. 1342
„ „ *inverta*, vi. 1340
„ „ *medioxima*, vi. 1360
„ „ *monstrosa*, vi. 1342
„ „ *pendula*, vi. 1340
„ „ *virgata*, vi. 1342
„ Fargesii, *Franchet*, iv. 719
„ firma, *Siebold and Zuccarini*, iv. **762**, 715, 716, 765, 768
„ „ distribution, iv. 763
„ „ Narai (Japan), tree at, iv. 763, Pl. 216
„ „ remarkable trees, iv. 764
„ *Fortunei*, Murray, vi. 1474
„ Fraseri, *Poiret*, iv. **806**, 716
„ „ distribution, iv. 807
„ „ history and cultivation, iv. 807
„ „ identification, iv. 806
„ *Glehnii*, Schmidt, vi. 1369
„ *Gmelini*, Ruprecht, ii. 379
„ *Gordoniana*, Carrière, iv. 773
„ gracilis, *Komarov*, iv. 759
„ grandis, *Lindley*, iv. **773**; i. 96; ii. 236, 398; iv. 715, 716, 778, 779, 780 note 1, 789 note
„ „ distribution, iv. 774
„ „ Eastnor Castle, tree at, iv. 775, Pl. 217
„ „ identification, iv. 773
„ „ in England, iv. 775
„ „ in Germany, North-western, iv. 776
„ „ in Ireland, iv. 776
„ „ in Scotland, iv. 775
„ „ in Vancouver Island, iv. 774, Pl. 218
„ „ remarkable trees, iv. 774
„ „ var. *Lowiana*, iv. 779
„ *grandis*, Murray, iv. 782
„ *Griffithiana*, Lindley and Gordon, ii. 388
„ *heterophylla*, Rafinesque, ii. 234
„ *hirtella*, Lindley, iv. 808
„ holophylla, *Maximowicz*, iv. **763**
„ *homolepis*, Mayr, iv. 765
„ homolepis, *Siebold and Zuccarini*, iv. **764**, 716, 765 note 3, 766
„ *Hookeriana*, Murray, ii. 229, 230

Abies—*continued*
„ *Hudsonia*, Bosc, iv. 804
„ insignis, *Carrière*, iv. **733**
„ *japonica*, iv. 770
„ *jezoensis*, Lindley, vi. 1474
„ „ Siebold and Zuccarini, i. 85
„ *Kaempferi*, Lindley (Larix leptolepis), ii. 384
„ „ „ (Pseudolarix Fortunei), vi. 1477 and note 2
„ *kamtschatika*, Ruprecht, ii. 346
„ *Khutrow*, Loudon, vi. 1366
„ *Larix*, Poiret, ii. 349
„ *lasiocarpa*, Masters, iv. 779
„ lasiocarpa, *Nuttall*, iv. **800**; ii. 398; iv. 716 note 2, 719, 759, 783; vi. 1389
„ „ distribution, iv. 801
„ „ history and cultivation, iv. 802
„ „ identification, iv. 801
„ „ Montana, tree in, iv. 802, Pl. 225
„ „ var. arizonica, iv. **801**
„ *laxa*, Koch, vi. 1380
„ *Ledebourii*, Ruprecht, ii. 374
„ *leptolepis*, Lindley, ii. 385 note
„ „ Siebold and Zuccarini, ii. 384
„ Lowiana, *A. Murray*, iv. **779**, 716, 777 note 1, 778, 794
„ „ distribution, iv. 780
„ „ history and cultivation, iv. 780
„ „ identification, iv. 779
„ „ Linton Park, tree at, iv. 781, Pl. 219
„ „ remarkable trees, iv. 781
„ *macrocarpa*, Vasey, iv. 812
„ magnifica, *A. Murray*, iv. **792**, 715, 718, 780, 781, 787
„ „ Bayfordbury, tree at, iv. 794, Pl. 222
„ „ Bonskeid, tree at, iv. 795, Pl. 223
„ „ distribution, iv. 793
„ „ identification, iv. 793
„ „ introduction, iv. 794
„ „ remarkable trees, iv. 794
„ „ var. shastensis, iv. **793**
„ „ *xanthocarpa*, iv. 793
„ *Mariana*, Miller, vi. 1375
„ Mariesii, *Masters*, iv. **771**, 715, 717, 761 note 2, 770
„ „ cultivation, iv. 772
„ „ distribution and history, iv. 772
„ „ identification, iv. 772
„ *Mariesii*, Masters, iv. 750, 754 note
„ marocana, *Trabut*, iv. **738**
„ *Maximowiczii*, Neumann, vi. 1374
„ *medioxima*, Lawson, vi. 1360
„ *Menziesii*, Engelmann, vi. 1389
„ „ var. *Parryana*, vi. 1389
„ *Menziesii*, Lindley, i. 92, 94
„ *Mertensiana*, Gordon, ii. 234
„ *microcarpa*, Poiret, ii. 392
„ *microsperma*, Lindley, i. 87
„ *Momi*, Siebold, iv. 762

Abies—*continued*
„ *Morinda*, Lindley, vi. 1392
„ „ Nelson (Senilis), vi. 1366
„ *mucronata*, Rafinesque, iv. 814
„ nephrolepis, *Maximowicz*, iv. **769**, 759
„ *nigra*, Du Roi, vi. 1375
„ nobilis, *Lindley*, iv. **786**; ii. 397 note; iv. 715, 718, 774, 780, 784 note, 792, 793, 795 note 3
„ „ Cascade Mountains, trees in, iv. 787, Pl. 221
„ „ cultivation, iv. 788
„ „ distribution, iv. 787
„ „ history, iv. 788
„ „ in England, iv. 789
„ „ in Ireland, iv. 791
„ „ in Scotland, iv. 790
„ „ remarkable trees, iv. 789
„ „ var. *magnifica* (Kellogg), iv. 792
„ „ „ (Masters), iv. 793
„ „ *robusta*, iv. 793, 794
„ Nordmanniana, *Spach*, iv. **746**, 713 note 3, 717, 732, 733, 770, 782, 785
„ „ cultivation, iv. 748
„ „ distribution, iv. 747
„ „ hybrids, iv. 733
„ „ remarkable trees, iv. 749
„ „ varieties, iv. 746
„ „ var. equi-Trojani, iv. **747**
„ „ speciosa, iv. **733**
„ numidica, *De Lannoy*, iv. **737**, 716 note 1, 717 note 2, 718, 724
„ „ distribution, iv. 738
„ „ history and cultivation, iv. 738
„ „ identification, iv. 738
„ *obovata*, Don, vi. 1359
„ „ Loudon, var. *japonica*, vi. 1374
„ *orientalis*, Poiret, vi. 1362
„ *panachaica*, Heldreich, iv. 739, 740
„ *Pattoniana*, Balfour, ii. 229, 230
„ pectinata, *De Candolle*, iv. **720**, 713 note 3, 716, 733, 748 note 2, 799 note 2
„ „ Ardkinglas, trees at, iv. 729
„ „ bark, iv. 726
„ „ Cowdray Park, tree at, iv. 727, Pl. 208
„ „ cultivation, iv. 726
„ „ „ Mr. Crozier's experience, iv. 727
„ „ distribution, iv. 722
„ „ in Corsica, iv. 724
„ „ in England, iv. 726-729
„ „ in France, iv. 723
„ „ in Germany, iv. 724
„ „ in Ireland, iv. 727, 730
„ „ in Italy, iv. 724
„ „ in Scotland, iv. 727 note 2, 729
„ „ in Silesia and Bohemia, immense size, iv. 724
„ „ in Switzerland, iv. 724
„ „ Inveraray Castle, trees near, iv. 729

Abies pectinata, *De Candolle—continued*
„ „ Jægersborg, plantation in the Royal Park, iv. 725
„ „ Longleat, trees at, iv. 728, Pl. 209. *See* Errata, 1940
„ „ mistletoe on, iv. 726
„ „ remarkable trees, iv. 727
„ „ Roseneath, champion tree at, iv. 729, Pl. 210
„ „ seedling, iv. 721
„ „ timber, iv. 731
„ „ Tullymore Park, tree at, iv. 730, Pl. 211
„ „ varieties, iv. 721
„ „ var. brevifolia, iv. **722**
„ „ columnaris, iv. **722**
„ „ pendula, iv. **722**
„ „ pyramidalis, iv. **722**
„ „ tortuosa, iv. **722**
„ „ virgata, iv. **722**; vi. 1342 note 1
„ *pendula*, Poiret, ii. 379
„ *Picea*, Lindley, iv. 720
„ „ Miller, vi. 1337
„ *Pichta*, Forbes, iv. 758
„ Pindrow, *Spach*, iv. **755**, 715, 719, 751
„ „ distribution, iv. 756
„ „ identification, iv. 755
„ „ remarkable trees, iv. 757
„ „ var. intermedia, iv. **756**
„ Pinsapo, *Boissier*, iv. **732**; i. 96; iv. 715, 741
„ „ cultivation, iv. 735
„ „ distribution, iv. 733
„ „ dwarf form, iv. 735 and note 3
„ „ history, iv. 735
„ „ hybrids, iv. 732
„ „ „ Moser's, iv. **733**
„ „ in Andalusia, iv. 734, Pl. 212
„ „ Longleat, tree at, iv. 736, Pl. 213
„ „ remarkable trees, iv. 735
„ „ var. *baborensis*, iv. 737
„ „ Hammondi, iv. 735 note 3
„ *polita*, Siebold and Zuccarini, vi. 1370
„ recurvata, *Masters*, iv. 719
„ *Reginæ Amaliæ*, Heldreich, iv. 739, 740, 741
„ *religiosa*, Hooker and Arnott, iii. 688
„ religiosa, *Schlechtendal*, iv. **808**, 717; v. 1183
„ „ distribution, iv. 808
„ „ Fota, tree at, iv. 810, Pl. 226
„ „ remarkable trees, iv. 809
„ *rubra*, Poiret, vi. 1377
„ „ var. *cærulea*, vi. 1382
„ sachalinensis, *Masters*, iv. **760**; i. 86, 87; iv. 718, 759, 770, 801 note 2
„ „ distribution and cultivation, iv. 761
„ „ varieties, iv. 760
„ „ var. nemorensis, iv. **760**, 770 note 3
„ *sacra*, Franchet, vi. 1475
„ *Schrenkiana*, Lindley and Gordon, vi. 1364

Abies—*continued*
„ *selinusia*, Carrière, iv. 744
„ *Semenovii*, Fedtschenko, iv. 758
„ *shastensis*, Lemmon, iv. 792, 793
„ sibirica, *Ledebour*, iv. **758**, 718, 761, 801 note 2
„ „ distribution and cultivation, iv. 759
„ *sitchensis*, Lindley and Gordon, i. 92
„ *Smithiana*, Hooker, vi. 1392
„ „ Lindley, vi. 1366
„ *spectabilis*, Spach, iv. 750
„ *spinulosa*, Griffith, vi. 1392
„ squamata, *Masters*, iv. 719
„ *subalpina*, Engelmann, iv. 783, 800
„ *taxifolia*, Poiret, iv. 814
„ *Torano*, Siebold, vi. 1370
„ *Tschonoskiana*, Regel, iv. 764
„ *Tsuga*, Siebold and Zuccarini, ii. 246
„ „ var. *nana*, ii. 248
„ umbellata, *Mayr*, iv. **768**, 717 note 1
„ *umbilicata*, Beissner, iv. 768
„ Veitchii, *Lindley*, iv. **768**; i. 90; iv. 717, 760, 765 note 2
„ „ cultivation, iv. 771
„ „ distribution and history, iv. 770
„ „ identification, iv. 770
„ „ trees associated with, iv. 770
„ „ var. Nikkoensis, iv. **769**
„ „ *sachalinensis*, iv. 760
„ „ typica, iv. **769**
„ *venusta*, Koch, iv. 796
„ Vilmorini, *Masters*, iv. **732**
„ *vulgaris*, Poiret, iv. 720
„ Webbiana, *Lindley*, iv. **750**, 715, 716, 755, 756, 766, 771 and note 2; vi. 1394
„ „ cultivation, iv. 753
„ „ distribution, iv. 752
„ „ history, iv. 753
„ „ remarkable trees, iv. 753
„ „ Sikkim, trees in, iv. 752, Pl. 215
„ „ varieties, iv. 751
„ „ var. brevifolia, iv. **751** and note
„ „ *Pindrow*, iv. 755
„ *Williamsonii*, Newberry, ii. 229
„ *yezoensis*, i. 87
„ *yunnanensis*, Franchet, ii. 229 note 2
ABIETIA, Kent, iv. 811
Abietia Douglasii, Kent, iv. 814
„ „ var. *macrocarpa*, iv. 812
„ *Fortunei*, Kent, vi. 1474
ACACIA, Adanson, vii. **1697**
Acacia, False, vi. **1497**. *See* Robinia Pseudacacia
„ Rose, vi. **1508**. *See* Robinia hispida
Acacia *arcuata*, Sieber, vii. 1699
„ *brevipes*, Cunningham, vii. 1699
„ dealbata, *Link*, vii. **1697**
„ „ Derreen, tree at, vii. 1698, Pl. 376
„ decurrens, *Willdenow*, vii. 1698
„ „ var. *dealbata*, vii. 1697
„ „ mollis, vii. 1698 note 1
„ *irrorata*, Sieber, vii. 1697
„ *latifolia*, Desfontaines, vii. 1699
„ melanoxylon, *R. Brown*, vii. **1699**

Acacia—*continued*
„ seyal, *Delile*, v. 1157 note 6
ACANTHOPANAX, Miquel, vii. **1694**
Acanthopanax *acerifolium*, Schelle, vii. 1694
„ ricinifolium, *Seemann*, vii. **1694**
„ „ timber, vii. 1696
„ „ var. Maximowiczii, vii. 1695
ACER, Linnæus, iii. **630**. *See also* Maple
„ synopsis of species in cultivation, iii. 631
Acer argutum, *Maximowicz*, iii. **638**
„ *barbatum*, Michaux, iii. 677, 678
„ „ var. *nigrum*, iii. 678
„ Bornmülleri, *Borbas*, iii. 652
„ *californicum*, Dietrich, iii. 684
„ campestre, *Linnæus*, iii. **651**, 638
„ „ distribution, etc. *See* Maple, Common
„ „ var. collinum, iii. 652
„ „ hebecarpum, iii. **652**
„ „ „ acutilobum, iii. **652**
„ „ „ lobatum, iii. **652**
„ „ „ subtrilobum, iii. **652**
„ „ leiocarpum, iii. **652**
„ „ „ austriacum, iii. **652**
„ „ „ normale, iii. **652**
„ „ „ pseudomarsicum, iii. **652**
„ „ pulverulentum, iii. **652**
„ „ variegatum, iii. **652**
„ capillipes, *Maximowicz*, iii. **633**
„ carpinifolium, *Siebold and Zuccarini*, iii. **631**; iv. 953
„ circinatum, *Pursh*, iii. **639**
„ „ leaves, iii. 639, Pl. 205, Fig. 5
„ cissifolium, *Koch*, iii. **640**
„ *coccineum*, Michaux f., iii. 671
„ *colchicum*, Booth, iii. 660
„ coriaceum, *Tausch*, iii. **634**
„ cratægifolium, *Siebold and Zuccarini*, iii. **633**, 632
„ „ var. Veitchii, iii. **633**
„ creticum, *Linnæus*, iii. **632**
„ „ leaves, iii. 632, Pl. 207, Fig. 32
„ *cultratum*, Wallich, iii. 660, 661
„ dasycarpum, *Ehrhart*, iii. **674**, 636, 672
„ „ distribution, etc. *See* Maple, Silver
„ „ var. laciniatum, iii. **675**
„ „ tripartitum, iii. **675**
„ Davidi, *Franchet*, iii. **632**
„ diabolicum, *Blume*, iii. **638**
„ „ leaves, iii. 638, Pl. 207, Fig. 26
„ Dieckii, *Pax*, iii. **637**, 657
„ „ leaves, iii. 637, Pl. 207, Fig. 30
„ distylum, *Siebold and Zuccarini*, iii. **631**
„ *Drummondii*, Hooker and Arnott, iii. 671
„ *eriocarpum*, Michaux, iii. 674
„ Fargesii, *Rehder*, iii. **632**
„ floridanum, *Pax*, iii. 678
„ *Francheti*, Pax, iii. 638 note 2
„ ginnala, *Maximowicz*, iii. **633**
„ „ var. Semenovii, iii. **633**
„ glabrum, *Torrey*, iii. **634**

Acer—*continued*
„ grandidentatum, *Nuttall*, iii. **635**
„ „ leaves, iii. 635, Pl. 205, Fig. 4
„ griseum, *Pax*, iii. **641**
„ Heldreichii, *Orphanides*, iii. **636**
„ „ leaves, iii. 636, Pl. 206, Fig. 17
„ Henryi, *Pax*, iii. **640**
„ hispanicum, *Pourret*, iii. 663
„ hybridum, *Spach*, iii. **634**
„ hyrcanum, *Fischer et Meyer*, iii. **635**
„ „ leaves, iii. 636, Pl. 207, Fig. 22
„ insigne, *Boissier et Buhse*, iii. **667**, 636, 668, 669
„ „ leaves, iii. 636, 667, Pl. 206, Fig. 18
„ „ var. glabrescens, iii. **667**, 668
„ „ longiloba, iii. 667 note 2
„ „ obtusiloba, iii. 667 note 2
„ „ typica, iii. 667 note 2
„ „ *Van Volxemi*, iii. 668
„ „ velutina, iii. **667**
„ „ *Wolfi*, iii. 669
„ *insigne*, Nicholson, iii. 669
„ *italum*, Lauth, iii. 663
„ japonicum, *Thunberg*, iii. **639**
„ „ var., leaves, iii. 640, Pl. 207, Fig. 29
„ *lætum*, C. A. Meyer, iii. 660, 661
„ *lævigatum*, Wallich, var. *Fargesii*, iii. 632
„ leucoderme, *Small*, iii. 678
„ Lobelii, *Tenore*, iii. **659**, 637
„ „ leaves, iii. 637, 660, Pl. 205, Fig. 8
„ *Lorbergi*, Van Houtte, iii. 656
„ macrophyllum, *Pursh*, iii. **681**, 638
„ „ distribution, etc. *See* Maple, Oregon
„ mandshuricum, *Maximowicz*, iii. 640 note
„ Martini, *Jordan*, iii. 663
„ *Mayri*, von Schwerin, iii. 660, 662
„ Miyabei, *Maximowicz*, iii. **638**
„ *Mono*, Maximowicz, iii. 660, 662
„ monspessulanum, *Linnæus*, iii. **665**, 632, 634, 652
„ „ distribution, etc. *See* Maple, Montpellier
„ „ var. rumelicum, iii. **666**
„ *neapolitanum*, Tenore, iii. 664
„ neglectum, *Lange*, iii. **637**, 652
„ „ leaves, iii. 637, Pl. 205, Fig. 7
„ Negundo, *Linnæus*, iii. **684**, 640, 673
„ „ distribution, etc. *See* Maple, Ash-leaved
„ „ var. auratum, iii. **685**
„ „ aureo-maculatum, iii. 685
„ „ aureo-marginatum, iii. 685
„ „ californicum, iii. **684**, 640, 685
„ „ „ leaves, iii. 640, 685, Pl. 205, Fig. 1
„ „ crispum, iii. 685
„ „ variegatum, iii. 685
„ „ violaceum, iii. 685
„ *nigrum*, Michaux f., iii. 678
„ nikoense, *Maximowicz*, iii. **641**
„ oblongum, *Wallich*, iii. **631**
„ *obtusatum*, Kitaibel, iii. 663
„ Oliverianum, *Pax*, iii. **638**

Acer—*continued*
„ Opalus, *Miller*, iii. **663**, 635, 666
„ „ distribution, etc. *See* Maple, Italian
„ „ var. neapolitanum, iii. **664**, 635
„ „ „ leaves, iii. 635, Pl. 206, Fig. 15
„ „ obtusatum, iii. **663**, 634, 664, 666
„ „ „ leaves, iii. 634, 663, Pl. 206, Fig. 16
„ *opulifolium*, Villar, iii. 663
„ palmatum, *Thunberg*, iii. **639**, 638
„ pennsylvanicum, *Linnæus*, iii. **633**
„ „ leaves, iii. 633, Pl. 206, Fig. 13
„ Peronai, *von Schwerin*, iii. 666
„ pictum, *Thunberg*, iii. **660**, 637
„ „ distribution, iii. 662
„ „ leaves, iii. 637, 660, Pl. 205, Fig. 9
„ „ var. colchicum, iii. **661**, 637, 652, 657
„ „ „ rubrum, iii. **661**, 662
„ „ cultratum, iii. **661**
„ „ eu-pictum, iii. **661**
„ „ Mayri, iii. **662**
„ „ Mono, iii. **662**
„ „ tomentosulum, iii. **661**
„ „ tricaudatum, iii. **661**
„ platanoides, *Linnæus*, iii. **656**, 637, 662, 670 and note 2
„ „ distribution, etc. *See* Maple, Norway
„ „ var. albo-variegatum, iii. **657**
„ „ aureo-marginatum, iii. **657**
„ „ aureo-variegatum, iii. 657 note 5
„ „ columnare, iii. **657**
„ „ cucullatum, iii. **657**
„ „ dissectum, iii. **656**
„ „ „ leaves, iii. 656, Pl. 206, Fig. 21
„ „ globosum, iii. **657**
„ „ heterophyllum, iii. **657**
„ „ *integrilobum*, iii. 637 note 2
„ „ laciniatum, iii. **656**
„ „ „ leaves, iii. 656, Pl. 205, Fig. 10
„ „ *Lobelii*, iii. 659, 660
„ „ maculatum, iii. **657**
„ „ *palmatum*, iii. 656
„ „ Reitenbachii, iii. **657**
„ „ rubrum, iii. **657**
„ „ Schwedleri, iii. **657**
„ Pseudoplatanus, *Linnæus*, iii. **641**, 634, 636
„ „ distribution, etc. *See* Sycamore
„ „ var. albo-variegatum, iii. **643**
„ „ atropurpureum, iii. **644**
„ „ aucubæfolium, iii. **644**
„ „ clausum, iii. **643**
„ „ corstorphinense, iii. **643**
„ „ crispum, iii. **643**
„ „ cruciatum, iii. **643**
„ „ cupreum, iii. **643**
„ „ erythrocarpum, iii. **643**
„ „ euchlorum, iii. **643**
„ „ *flava-variegata*, iii. 643

Acer Pseudoplatanus, *Linnæus—continued*
„ „ var. flavo-variegatum, iii. **644**
„ „ Handjeryi, iii. **644**
„ „ jaspideum, iii. **643**
„ „ Leopoldi, iii. **644**
„ „ *longifolium*, iii. 643 note 3
„ „ metallicum, iii. **643**
„ „ Nizeti, iii. **644**
„ „ palmatifidum, iii. **643**
„ „ purpureo-variegatum, iii. **644**
„ „ purpureum, iii. **644**
„ „ pyramidale, iii. **643**
„ „ Rafinesquianum, iii. **643**
„ „ splendens, iii. **643**
„ „ ternatum, iii. **643**
„ „ variegatum, iii. **644**
„ „ villosum, iii. **642**
„ „ vitifolium, iii. **643**
„ „ Webbianum, iii. **644**
„ „ Worlei, iii. **644**
„ *rectangulum*, Dulac, iii. 665
„ *rotundifolium*, Lamarck, iii. 663
„ rotundilobum, *von Schwerin*, iii. **634**, 666
„ rubrum, *Linnæus*, iii. **671**, 635
„ „ distribution, etc. *See* Maple, Red
„ „ var. Drummondii, iii. **671**
„ „ globosum, iii. **673**
„ „ sanguineum, iii. **672**
„ „ tridens, iii. **672**
„ rufinerve, *Siebold and Zuccarini*, iii. **633**
„ *Rugelii*, Pax, iii. 678
„ *saccharinum*, Linnæus, iii. 674
„ „ Wangenheim, iii. 677 and note
„ saccharum, *Marshall*, iii. **677**, 635, 674 note
„ „ distribution, etc. *See* Maple, Sugar
„ „ var. floridanum, iii. 679
„ „ leucoderme, iii. 679
„ „ monumentale, iii. 678
„ „ nigrum, iii. **678**, 677, 679
„ „ Rugelii, iii. **678**, 679
„ *sanguineum*, Spach, iii. 671
„ Sieboldianum, *Miquel*, iii. **640**
„ spicatum, *Lamarck*, iii. **633**
„ sutchuense, *Franchet*, iii. 640 note
„ tataricum, *Linnæus*, iii. **631**
„ „ leaves, iii. 631, Pl. 207, Fig. 33
„ tetramerum, *Pax*, iii. **635**
„ Trautvetteri, *Medwedjeff*, iii. **669**, 636, 668
„ „ leaves, iii. 636, 670, Pl. 206, Fig. 19
„ trifidum, *Hooker et Arnott*, iii. 632
„ *trifolium*, Duhamel, iii. 665
„ *trilobatum*, Lamarck, iii. 665
„ *trilobum*, Moench, iii. 665
„ trinerve, *Dippel*, iii. **632**
„ truncatum, *Bunge*, iii. **637**
„ „ leaves, iii. 637, Pl. 205, Fig. 6
„ *Van Volxemi*, Masters, iii. 668
„ villosum, *Wallich*, iii. **639**
„ Volxemi, *Masters*, iii. **668**, 636
„ „ variety, iii. 669
Ædidium cedri, etc. *See* Fungi

Æsculus, Linnæus, ii. **206**
„ key to species, ii. 209
„ section Calothyrsus, ii. **208**
„ „ Hippocastanum, ii. **206**
„ „ Macrothyrsus, ii. **208**
„ „ Pavia, ii. **207**
Æsculus *arguta*, Buckley, ii. 223
„ austrina, *Small*, ii. **208**
„ *balgiana*, André, ii. 218
„ californica, *Nuttall*, ii. **226**, 208, 209
„ „ branchlets and buds, ii. 209, 226, Pl. 62, Fig. 5
„ „ leaves, etc., ii. 209, 226, Pl. 61, Fig. 5
„ carnea, *Hayne*, ii. **217**, 207, 208, 209
„ „ branchlets and buds, ii. 209, 217, Pl. 62, Fig. 2
„ „ history, ii. 218
„ „ identification, ii. 217
„ „ leaves, etc., ii. 209, 217, Pl. 61, Fig. 4
„ „ var. alba, ii. **218**
„ „ aureo-maculata, ii. 218
„ „ aureo-marginata, ii. 218
„ „ Briotii, ii. **218**
„ „ pendula, ii. **218**
„ chinensis, *Bunge*, ii. **207**
„ *chinensis*, Masters, ii. 221
„ *discolor*, Pursh, ii. 224
„ *flava*, Aiton, ii. 224
„ glabra, *Willdenow*, ii. **223**, 207, 209
„ „ branchlets and buds, ii. 223, Pl. 62, Fig. 3
„ „ leaves, etc., ii. 209, 223, Pl. 61, Fig. 9
„ „ var. Buckleyi, ii. **223**
„ Hippocastanum, *Linnæus*, ii. **210**, 207, 209
„ „ distribution, etc. *See* Horse-Chestnut, Common
„ „ var. *asplenifolia*, ii. 212
„ „ aureo-variegata, ii. **212**
„ „ crispa, ii. **212**
„ „ flore pleno, ii. **211**
„ „ *incisa*, ii. 212
„ „ laciniata, ii. **212**
„ „ Memmingeri, ii. **212**
„ „ pyramidalis, ii. **212**
„ „ tortuosa, ii. **212**
„ „ umbraculifera, ii. **212**
„ *Hippocastanum* × *A. Pavia*, Koch, ii. 217
„ hybrids, ii. 208
„ indica, *Colebrooke*, ii. **219**, 207, 209, 212
„ „ Barton, tree at, ii. 220, Pl. 65
„ „ branchlets and buds, ii. 209, 219, Pl. 62, Fig. 6
„ „ cultivation, ii. 220
„ „ distribution, ii. 219
„ „ identification, ii. 219
„ „ leaves, etc., ii. 209, 219, Pl. 61, Fig. 2
„ *intermedia*, André, ii. 218
„ *lutea*, Wangenheim, ii. 224
„ *Lyoni*, Hort., ii. 225

Æsculus—*continued*
„ *macrostachya*, Michaux, ii. 208
„ *neglecta*, Lindley, ii. 224
„ octandra, *Marshall*, ii. **224**, 207, 209, 223
„ „ branchlets and buds, ii. 224, Pl. 62, Fig. 4
„ „ cultivation, ii. 225
„ „ distribution, ii. 225
„ „ identification, ii. 224
„ „ leaves, etc., ii. 209, 224, Pl. 61, Fig. 6
„ „ var. hybrida, ii. **224**
„ „ *purpurascens*, ii. 224
„ *pallida*, Willdenow, ii. 223
„ Parryi, *A. Gray*, ii. **208**
„ parviflora, *Walter*, ii. **208**, 209
„ „ leaves, etc., ii. 208, 209, Pl. 61, Fig. 7
„ Pavia, *Linnæus*, ii. **207**, 209, 218, 225
„ „ leaves, etc., ii. 207, 209, Pl. 61, Fig. 8
„ „ var. *discolor*, ii. 208
„ plantierensis, *André*, ii. **218**, 209
„ punduana, *Wallich*, ii. **207**
„ *rubicunda*, Loiseleur, ii. 217
„ turbinata, *Blume*, ii. **221**, 207, 209, 211
„ „ distribution, ii. 221
„ „ identification, ii. 221
„ „ in Japan, ii. 222, Pl. 66
„ „ leaves, etc., ii. 209, 221, Pl. 61, Fig. 3
„ „ timber, ii. 222
„ versicolor, *Dippel*, ii. **224**, 207, 209
„ *Whitleyi*, Hort., ii. 225
Aethnen tree, vii. 1789
Agaricus melleus. *See* Fungi
Agathisanthes, Blume, iii. 508
Ailanthus, Desfontaines, i. **29**
Ailanthus *flavescens*, Carrière, i. 31; ii. 433, 434
„ glandulosa, *Desfontaines*, i. **30**, **29**; vii. 1933 and note 4
„ „ Belton Park, tree at, i. 35, Pl. 14
„ „ branchlets and buds, i. 31; ii. Pl. 126, Fig. 3
„ „ Broom House, tree at, i. 35, Pl. 13
„ „ cultivation, i. 33
„ „ distribution, i. 31
„ „ identification, i. 31
„ „ introduction, i. 32
„ „ leaves, i. 30, Pl. 15, Fig. B
„ „ old tree at Cambridge, vii. 1933 note 4
„ „ remarkable trees, i. 35
„ „ seedling, i. 30, Pl. 15, Fig. A
„ „ var. *aucubæfolia*, i. 31
„ „ *flavescens*, i. 31
„ „ pendula, i. 31
„ „ *pendulifolia*, i. 31
„ „ *rubra*, i. 31
„ „ *spinosa*, i. 29 note 2
„ grandis, *Prain*, i. **29**
„ malabarica, i. 32
Ailanthus—*continued*
„ moluccana, i. 33
„ "Tree of Heaven," i. **33**
„ Vilmoriniana, *Dode*, i. **29**
Aka-eso tree, vi. 1370
Aka-matsu tree, v. 1126
Akfadou, Forest of, v. 1319
Ak Illeden tree, iv. 745
Alain tree, vii. 1814 note 7
Alcornoque tree, v. 1295
Alder, Caucasian, iv. **951**. *See* Alnus subcordata
„ Common, iv. **937**. *See also* Alnus glutinosa
„ „ culture, iv. 941
„ „ distribution, iv. 940
„ „ etymology, iv. 940
„ „ hybrids, iv. 939-940, 949; vii. 1852 note 2
„ „ in England, iv. 942
„ „ in Ireland, iv. 943
„ „ in Scotland, iv. 943
„ „ Kilmacurragh, trees at, iv. 943, Pl. 253
„ „ leaves, iv. 937, Pl. 268, Fig. 6
„ „ Lilford, trees at, iv. 942, Pl. 252
„ „ propagation, iv. 941
„ „ remarkable trees, iv. 942
„ „ timber, iv. 943
„ „ „ clog soles from, iv. 944
„ „ varieties, iv. 938
„ Cut-leaved, iv. 939
„ Grey, iv. **945**. *See also* Alnus incana
„ „ cultivation, iv. 948
„ „ distribution, iv. 946
„ „ hybrid, vii. 1852 note 2
„ „ leaves, iv. 945, Pl. 268, Fig. 1
„ Himalayan, iv. **954**. *See* Alnus nitida
„ Italian, iv. **949**. *See also* Alnus cordata
„ „ distribution, restricted, iv. 950
„ „ hybrid, iv. 949
„ „ leaves, iv. 949, Pl. 268, Fig. 4
„ „ Tottenham House, tree at, iv. 950, Pl. 254
„ Japanese, iv. **953**. *See* Alnus japonica
„ Oregon, iv. **956**. *See* Alnus rubra
Aleppo galls, v. 1326
Alerce tree (Fitzroya patagonica), vi. 1455
„ „ (Larch and Cedar), vi. 1455 note 2
„ „ (Libocedrus tetragona), iii. 486 and note 1
Alisier de Fontainebleau, i. 156 note 2
Alnaster, Spach, iv. 935
Alnobetula, Schur, iv. 935
Alnus, Linnæus, iv. **935**. *See also* Alder
„ key to species, iv. 935
Alnus *Alnobetula*, Hartig, iv. 936 note 1
„ *barbata*, C. A. Meyer, iv. 937, 938
„ *communis*, Desfontaines, iv. 937
„ cordata, *Desfontaines*, iv. **949**, 936
„ „ distribution, etc. *See* Alder, Italian
„ *cordifolia*, Tenore, iv. 949
„ „ var. *subcordata*, iv. 951
„ *denticulata*, C. A. Meyer, iv. 939 note 1
„ elliptica, *Requien*, iv. **949**, 936

Alnus—*continued*
„ firma, *Siebold and Zuccarini*, iv. **952**, 935
„ „ leaves, iv. 952, Pl. 268, Fig. 2
„ „ var. multinervis, iv. **952**, 953
„ „ Sieboldiana, iv. **953**
„ „ yasha, iv. **953**
„ *glauca*, Michaux f., iv. 945
„ glutinosa, *Gaertner*, iv. **937**, 945, 949
„ „ distribution, etc. *See* Alder, Common
„ „ var. aurea, iv. **939**
„ „ barbata, iv. **938**, 937
„ „ denticulata, iv. 939
„ „ imperialis, iv. **939**
„ „ „ leaves, iv. 939, Pl. 268, Fig. 8
„ „ incisa, iv. **939**, 946
„ „ „ leaves, iv. 939, Pl. 268, Fig. 10
„ „ *japonica*, iv. 940, note 2
„ „ laciniata, iv. **939**
„ „ „ leaves, iv. 939, Pl. 268, Fig. 7
„ „ maculata, iv. **939**
„ „ *oxyacanthæfolia*, iv. 939
„ „ pyramidalis, iv. **939**
„ „ quercifolia, iv. **939**
„ „ rubrinervia, iv. **939**
„ „ sorbifolia, iv. **939**
„ glutinosa × A. incana, iv. 939 note 2
„ „ × A. serrulata, iv. 940
„ hirsuta, *Turczaninow*, iv. 946
„ *imperialis*, Desfossé-Thuillier, iv. 939
„ incana, *Moench*, iv. **945**, 936, 939, 956
„ „ distribution, etc. *See* Alder, Grey
„ „ var. acuminata, iv. **946**
„ „ „ leaves, iv. 946, Pl. 268, Fig. 9
„ „ argentata, iv. **946**
„ „ aurea, iv. **946**
„ „ glauca, iv. **946**
„ „ *glauca* (Regel in part), iv. 957
„ „ „ (Shirasawa), iv. 946 and note 4
„ „ *hirsuta*, iv. 946 note 3, 947 note
„ „ monstrosa, iv. **946**
„ „ orbicularis, iv. **946**
„ „ *parvifolia*, iv. 946
„ „ pinnatifida, iv. **946**
„ „ *rubra*, iv. 956
„ „ *virescens*, iv. 957
„ japonica, *Siebold and Zuccarini*, iv. **953**, 936, 947
„ „ leaves, iv. 953, Pl. 268, Fig. 12
„ *languinosa*, Gilibert, iv. 945
„ maritima, *Nuttall*, iv. **955**, 936, 953 and note, 954
„ „ leaves, iv. 955, Pl. 268, Fig. 11
„ „ var. *formosana*, iv. 953
„ „ *japonica*, iv. 953
„ *multinervis*, Callier, iv. 952
„ *nigra*, Gilibert, iv. 937
„ nitida, *Endlicher*, iv. **954**, 936
„ „ leaves, iv. 954, Pl. 268, Fig. 3

Alnus—*continued*
„ *oblongata*, Regel, iv. 955
„ *oblongifolia*, Watson, iv. 958
„ *occidentalis*, Dippel, iv. 957
„ *oregona*, Nuttall, iv. 956
„ orientalis, *Decaisne*, iv. 952
„ *pendula*, Matsumura, iv. 952
„ rhombifolia, *Nuttall*, iv. **958**, 936
„ „ leaves, iv. 958, Pl. 268, Fig. 13
„ rubra, *Bongard*, iv. **956**, 936
„ „ leaves, iv. 956, Pl. 268, Fig. 16
„ serrulata, *Willdenow*, iv. 935, 940
„ *serrulatoides*, Callier. *See* Errata, 1941
„ *Sieboldiana*, Matsumura, iv. 952, 953
„ *silesiaca*, Fiek, iv. 940 note 1
„ *spuria*, Callier, iv. 939 note 2
„ subcordata, *C. A. Meyer*, iv. **951**, 937, 949
„ „ leaves, iv. 951, Pl. 268, Fig. 5
„ tenuifolia, *Nuttall*, iv. **957**, 937
„ „ var. occidentalis, iv. **957**, 958
„ „ „ leaves, iv. 957, Pl. 268, Fig. 14
„ „ virescens, iv. **957**
„ „ „ leaves, iv. 957, Pl. 268, Fig. 15
„ tinctoria, *Sargent*, iv. **947**, 936 note 2, 946
„ viridis, *De Candolle*, iv. **936**; v. 1132
„ *vulgaris*, Persoon, iv. 937
„ *yasha*, Matsumura, iv. 952, 953
Altingia excelsa, *Noronha*, iii. 505 note 2
Andys tree, vi. 1418
Anisopteryx æscularia. *See* Insects
Antheræa cytherea. *See* Insects
Aomori-todo-matsu tree, iv. 772
Apple, Common, vi. **1570**. *See* Pyrus Malus
Apterocaryon, Opiz, iv. 959
Aquifolium, Haller, vii. 1702
'Arabim trees, vii. 1771
Aralia Maximowiczii, Van Houtte, vii. 1695
Araucaria, Jussieu, i. **43**
Auracaria *araucana*, C. Koch, i. 44; Errata, 1936
„ Bidwilli, i. 43 and note 1
„ Chilean. *See* Araucaria imbricata
„ *chilensis*, Mirbel, i. 44
„ Cookii, i. 43
„ Cunninghami, i. 43 and note 2, 131
„ *Dombeyi*, A. Richard, i. 44
„ excelsa, i. 43
„ imbricata, *Pavon*, i. **44**, 43
„ „ Beauport, trees at, i. 51, Pl. 20
„ „ cultivation and soil, i. 53
„ „ distribution, i. 45
„ „ Dropmore, tree at, i. 51, Pl. 19
„ „ in Chile, i. 49, Plates 17 and 18
„ „ in England, i. 51
„ „ in Ireland, i. 53
„ „ in Scotland, i. 52
„ „ remarkable trees, i. 51
„ „ resin, i. 46
„ „ root-suckers, i. 52; iii. 495
„ „ seedlings, i. 45, Pl. 15 F; 51, Pl. 15 E

Araucaria imbricata, *Pavon—continued*
„ „ timber, i. 54
„ „ uses, i. 54
Arbor Vitæ, Chinese, i. **197.** *See* Thuya orientalis
„ „ New Zealand, iii. 488
„ „ Western, i. **191.** *See* Thuya occidentalis
ARBUTUS, Linnæus, iii. **558**
„ key to species, iii. 558
Arbutus Andrachne, *Linnæus*, iii. **564**, 559, 563
„ „ distribution, iii. 565
„ *andrachnoides*, Link, iii. 563
„ arizonica, *Sargent*, iii. 558 note
„ canariensis, *Lamarck*, iii. 558 note. *See* Errata, 1939
„ hybrida, *Ker-Gawler*, iii. **563**, 559
„ „ Sedbury Park, tree at, iii. 564, Pl. 158
„ „ var. Milleri, iii. **564**
„ *integrifolia*, Salisbury, iii. 564
„ *intermedia*, Heldreich, iii. 563
„ *laurifolia*, Hooker, iii. 565
„ Menziesii, *Pursh*, iii. **565**, 559
„ „ distribution, iii. 566
„ *procera*, Douglas, iii. 565, 566
„ *serratifolia*, Loddiges, iii. 563
„ *Sieberi*, Klotzsch, iii. 564
„ Unedo, *Linnæus*, iii. **559**, 558, 563, 564
„ „ cultivation, iii. 563
„ „ distribution, iii. 560
„ „ etymology, iii. 561
„ „ in England, iii. 562, 563
„ „ in France, iii. 560
„ „ in Ireland, iii. 559, 561, 562
„ „ introduction, iii. 562
„ „ Killarney, tree at, iii. 562, Pl. 157
„ „ var. crispa, iii. 560
„ „ *Croomei*, iii. 560
„ „ integerrima, iii. **560**
„ „ *integrifolia*, iii. 560
„ „ plena, iii. 560
„ „ quercifolia, iii. **560**
„ „ *rotundifolia*, iii. 560
„ „ rubra, iii. **560**
„ „ salicifolia, iii. 560
„ „ turbinata, iii. **560**
„ *Unedo-Andrachne*, Boissier, iii. 563
Arceuthobium occidentale, etc. *See* Plants, Miscellaneous
ARCEUTHOS, Antoine and Kotschy, vi. 1395
Arceuthos drupacea, Antoine and Kotschy, vi. 1417
Aria Decaisneana, Lavallée, i. 167 note 4
„ *græca*, Decaisne, i. 167
„ *nivea*, Host, i. 166
Armillaria mellea. *See* Fungi
Arole tree, v. 1036
Arve tree, v. 1037
Arytsch tree, vi. 1447
Arz tree, iii. 457, 486 note 1; vi. 1455 note 2
Ash, iv. **859.** *See also* Fraxinus
„ Bastard Mountain, i. **163.** *See* Pyrus pinnatifida
„ Biltmore, iv. **906.** *See also* Fraxinus Biltmoreana
Ash, Biltmore—*continued*
„ „ Fawley Court, tree at, iv. 906, Pl. 247
„ „ leaves, iv. 906, Pl. 266, Fig. 30
„ Black, iv. **898.** *See* Fraxinus nigra
„ Blue, iv. **900.** *See* Fraxinus quadrangulata
„ Chinese, ii. 444
„ Common, iv. **864.** *See also* Fraxinus excelsior
„ „ Ashridge Park, tree at, iv. 873, Pl. 241
„ „ black-hearted, iv. 870
„ „ burrs used for veneers, iv. 879
„ „ canker in, at Staple, near Colesborne, iv. 878, Pl. 244
„ „ Castlewellan, tree at, iv. 877, Pl. 243
„ „ Cirencester, deformed tree at, iv. 878, Pl. 244
„ „ Cobham Park, tall tree at, iv. 873, Pl. 239
„ „ „ „ twisted tree at, iv. 873, Pl. 240
„ „ coppice, iv. 872
„ „ cultivation, iv. 870
„ „ diseases, iv. 877
„ „ distribution, iv. 869
„ „ etymology, iv. 870
„ „ fossil, iv. 869
„ „ identification, iv. 865
„ „ in England, iv. 872-875
„ „ in Ireland, iv. 876
„ „ in Scotland, iv. 875
„ „ in Wales, iv. 875
„ „ leaves, etc., iv. 864, Pl. 262, Fig. 4
„ „ remarkable trees, iv. 872
„ „ seedling, iv. 864
„ „ self-sown, iv. 871
„ „ timber, iv. 878
„ „ trees bearing only male or female flowers, iv. 864 note 3
„ „ varieties, iv. 865
„ „ Woodstock, Kilkenny, tree at, iv. 877, Pl. 242
„ Fiddle-back, iv. 879
„ Flowering, iv. **887.** *See also* Fraxinus Ornus
„ „ distribution, iv. 889
„ „ identification, iv. 888
„ „ leaves, iv. 887, Pl. 265, Fig. 26
„ „ remarkable trees, iv. 889
„ „ varieties, iv. 888
„ Green, iv. **907.** *See* Fraxinus lanceolata
„ Manna. *See* Ash, Flowering
„ Mountain, vi. **1576**, 1574 note 1; i. 142. *See* Pyrus Aucuparia
„ Narrow-leaved, iv. **879.** *See also* Fraxinus angustifolia
„ „ distribution, iv. 880
„ „ leaves, iv. 879, Pl. 262, Fig. 6
„ „ Rougham Hall, tree at, iv. 881, Pl. 245
„ „ varieties, iv. 880
„ Oregon, iv. **910.** *See* Fraxinus oregona
„ Pollard, at Selborne, iv. 875

Ash—*continued*
„ Red, iv. **908.** *See also* Fraxinus pennsylvanica
„ „ hybrid, iv. 909
„ „ leaves, iv. 909, Pl. 263, Fig. 13
„ „ varieties, iv. 909
„ Swamp, iv. **912.** *See* Fraxinus caroliniana
„ Texan, iv. **905.** *See* Fraxinus texensis
„ Tiflis, species from, iv. 886
„ „ „ leaves, iv. 886, Pl. 265, Fig. 25
„ Utah, iv. **900.** *See* Fraxinus anomala
„ Weeping, iv. **868**
„ „ Elvaston Castle, tree at, iv. 868, Pl. 238
„ White, iv. **901.** *See also* Fraxinus americana
„ „ cultivation, iv. 903
„ „ distribution, iv. 902
„ „ identification, iv. 902
„ „ Kew, tree at, iv. 904, Pl. 246
„ „ leaves, iv. 901, Pl. 265, Fig. 21
„ „ timber, iv. 904
„ „ varieties, iv. 902
Ash-bark beetle, iv. 878
Aspe, White, vii. 1779
Aspen, vii. **1787,** 1772. *See* Populus tremula
„ American, vii. **1791,** 1772. *See* Populus tremuloides
„ Japanese, vii. **1794.** *See* Populus Sieboldii
Asten trees, vi. 1407
Athrotaxis, Baillon, iii. 687
Athrotaxis, Don, vi. **1449**
Athrotaxis cupressoides, *Don*, vi. **1452,** 1450
„ *Doniana*, Maule, vi. 1451
„ *Gunneana*, Carrière, vi. 1450
„ *Gunniana*, Gordon, vi. 1450
„ laxifolia, *W. J. Hooker*, vi. **1451,** 1450
„ selaginoides, *Don*, vi. **1450**
„ ? tetragona, *W. J. Hooker*, vi. 1449 note 5
Atlasholz tree, i. 152
Aucuparia silvestris, Medicus, vi. 1576
Auvier tree, v. 1036
Avies selvadi tree, vi. 1361
Axelbar tree, i. 161
Ayacahuite colorado, or Red Pine, v. **1018**
Azareiro tree, vi. 1554
Azarolus, Borkhausen, vii. 1731
Azinheira tree, v. 1284
Azinho tree, v. 1284

Balsam Fir, iv. **803,** 802. *See* Abies balsamea
Barlind, i. 103
Bass-Wood, vii. **1685.** *See* Tilia americana
Bay, Sweet or Swamp, vi. 1586
Beaumier du Pérou, vii. 1835 note 6
Beech, i. **1.** *See also* Fagus
„ American, i. **2**
„ Antarctic, iii. 545. *See* Nothofagus
„ Australian, iii. 545. *See* Nothofagus
„ Caucasian, i. **3,** 2
„ Chinese, i. **5,** 2
„ Common, i. **6,** 2. *See also* Fagus sylvatica
Beech, Common—*continued*
„ „ Ashridge, inarched tree at, i. 21, Pl. 4
„ „ „ Queen Beech at, i. 20-21, Frontispiece and Pl. 3
„ „ „ tree with burr, i. 21, Pl. 5
„ „ avenues, i. 18
„ „ Cirencester, drive at, i. 20, Pl. 1
„ „ Cornbury Park, giant tree at, i. 22, Pl. 7
„ „ cultivation, i. 14
„ „ Dawyck House, fastigiate tree at, vii. Pl. 406
„ „ distribution, i. 11
„ „ etymology, i. 11
„ „ Gordon Castle, tree at, i. 24, Pl. 10
„ „ Meikleour, hedge at, i. 25, Pl. 11
„ „ in England, i. 11, 15-23
„ „ in Europe, i. 12-14
„ „ in Ireland, i. 11, 26-27
„ „ in Scotland, i. 11, 23-26
„ „ Knole Park, King Beech at, i. 20, Pl. 12
„ „ Newbattle Abbey, self-layered tree at, i. 23, 24 note, Plates 8 and 9
„ „ remarkable trees, i. 13, 19
„ „ Slindon Wood, at, i. 22, Pl. 6
„ „ soil and situation, i. 15
„ „ timber, i. 27
„ „ varieties, i. 7
„ „ Watford, avenue at, i. 18, Pl. 2
„ Copper, i. **8**
„ Fern-leaved, i. **9**
„ Gladstone, at Pinbury Park, i. Pl. 58
„ Golden, i. **9**
„ Japanese, Common, i. **4,** 2
„ „ Small, i. **4,** 1
„ New Zealand, iii. 545. *See* Nothofagus
„ Northern, i. **1.** *See* Fagus
„ Oak-leaved, i. **9**
„ Parasol, i. **10,** 11 note 1
„ Purple, i. **7**
„ Round-leaved, i. **10**
„ South American, iii. 545. *See* Nothofagus
„ „ distribution, iii. 554
„ „ timber, iii. 554
„ Tasmanian, iii. 545. *See* Nothofagus
„ „ Fota, tree at, iii. 551, Pl. 154
„ Weeping, i. **10**
„ „ Endsleigh, tree at, i. 10; ii. Pl. 58A
Beech coccus (Cryptococcus fagi). *See* Insects
Belis, Salisbury, iii. 494, 496 note 1
Belis jaculifolia, Salisbury, iii. 494
„ *lanceolata*, Sweet, iii. 494
Betula, Linnæus, iv. **959.** *See also* Birch
„ key to species, iv. 960
Betula, Linnæus, iv. 935
Betula *acuminata*, Ehrhart, iv. 987
„ alaskana, *Sargent*, iv. 993 note 4
„ *alba*, Linnæus, iv. 966
„ „ sub-species *latifolia*, iv. 967

Betula *alba*, Linnæus—*continued*
„ „ sub-species *populifolia*, iv. 987
„ „ var. *communis* (Regel), iv. 978 note 4
„ „ „ (Shirasawa), iv. 978
„ „ *latifolia*, iv. 968
„ „ *papyrifera*, iv. 983
„ „ *pendula*, iv. 966
„ „ „ *elegans*, iv. 968 note 4
„ „ *populifolia*, iv. 987
„ „ *pubescens*, iv. 962
„ „ *Tauschii*, iv. 967
„ *alba-sinensis*, Burkill, iv. 981
„ *Alnobetula*, Ehrhart, iv. 936 note 1
„ alnoides, *Buchanan-Hamilton*, iv. 976 note 1
„ „ var. pyrifolia, iv. 960
„ *Alnus*, Scopoli, iv. 937
„ „ var. *glutinosa*, iv. 937
„ „ *incana*, iv. 945
„ „ *maritima*, iv. 955
„ ambigua, *Hampe*, iv. 964
„ Andrewsii, *Nelson*, iv. 985
„ *antarctica*, Forster, iii. 551
„ aurata, *Borkhausen*, iv. 964
„ Bæumkeri, *Winkler*, iv. 976 note 1
„ *Bhojpattra*, Wallich, iv. 980
„ „ var. *subcordata*, iv. 978 note 1
„ „ *typica*, iv. 982 note 1
„ *cærulea*, Blanchard, iv. 988
„ *carpatica*, Waldstein and Kitaibel, iv. 963 note 5
„ *carpinifolia*, Ehrhart, iv. 991
„ carpinifolia, *Siebold and Zuccarini*, iv. 979
„ *cordata*, Loiseleur, iv. 949
„ *cordifolia*, Regel, iv. 983
„ corylifolia, *Regel and Maximowicz*, iv. 975, 960, 961, 978, 980 note
„ „ leaves, etc., iv. 975, Pl. 270, Fig. 14
„ costata, *Trautvetter*, iv. 979
„ *cuspidata*, Schrader, iv. 987
„ „ (of Späth's nursery), iv. 986
„ davurica, *Pallas*, iv. 974, 960, 989
„ Ermani, *Chamisso*, iv. 977, 961, 968, 979, 980 note, 982 note 2
„ „ distribution, iv. 978
„ „ leaves, etc., iv. 977, Pl. 270, Fig. 12
„ „ var. nipponica, iv. 978, 977 note 3, 982 note 2
„ excelsa, *Aiton*, iv. 986
„ „ var. *canadensis*, iv. 987
„ *excelsa*, Pursh, iv. 990
„ fontinalis, *Sargent*, iv. 992, 961
„ „ timber, iv. 994
„ fontinalis × B. papyrifera, iv. 993
„ „ „ leaves, etc., iv. 993, Pl. 269, Fig. 8
„ globispica, *Shirai*, iv. 960, 980 note
„ *glutinosa*, Lamarck, iv. 937
„ glutinosa, *Wallroth*, iv. 964
„ *grandis*, Schrader, iv. 983
„ grossa, *Siebold and Zuccarini*, iv. 979, 980 note
„ hybrida, *Bechstein*, iv. 964

Betula—*continued*
„ *incana*, Linnæus f., iv. 945
„ intermedia, *Thomas*, iv. 964
„ *Jacquemontii*, Spach, iv. 980, 981
„ *japonica*, Siebold, iv. 967
„ *kenaica*, Evans, iv. 984, 993 note 4
„ Koehnei, *Schneider*, iv. 986
„ *lanulosa*, Michaux, iv. 988
„ *latifolia*, Tausch, iv. 967, 983
„ lenta, *Linnæus*, iv. 991, 961, 989 note 1
„ „ hybrid, iv. 991
„ „ leaves, etc., iv. 991, Pl. 269, Fig. 3
„ „ timber, iv. 994 and note
„ „ var. *genuina*, iv. 990
„ „ laciniata, iv. 991
„ „ *lutea*, iv. 990
„ *lenta*, Wangenheim, iv. 983
„ *lobulata*, Kanitz, iv. 966
„ luminifera, *Winkler*, iv. 980, 961, 976 note 1
„ „ leaves, etc., iv. 980, Pl. 270, Fig. 16
„ lutea, *Michaux f.*, iv. 990, 961, 979
„ „ bark, iv. 994 note
„ „ leaves, etc., iv. 990, Pl. 270, Fig. 11
„ „ Oriel Temple, tree at, iv. 990, Pl. 260
„ *Lyalliana*, Koehne, iv. 984
„ *Maackii*, Ruprecht, iv. 974
„ *macrophylla*, Hort., iv. 983, 986
„ *Maximowicziana*, Regel, iv. 976
„ Maximowiczii, *Regel*, iv. 976, 960, 980 and note
„ „ leaves, etc., iv. 976, Pl. 269, Fig. 6
„ *Maximowiczii*, Ruprecht, iv. 974
„ *Murithii*, Gaudichaud, iv. 963
„ nana, iv. 964
„ *nigra*, Du Roi, iv. 991
„ nigra, *Linnæus*, iv. 988, 959 note 2, 961
„ „ bark, iv. 994 note
„ „ leaves, etc., iv. 988, Pl. 270, Fig. 13
„ *occidentalis*, Hooker, iv. 993
„ „ Lyall, iv. 984
„ „ Sargent, iv. 984 note 1, 992
„ *odorata*, Bechstein, iv. 962
„ „ Reichenbach, iv. 966
„ *palustris*, Salisbury, iv. 937
„ *papyracea*, Aiton, iv. 983
„ „ var. *occidentalis*, iv. 984 note 2
„ papyrifera, *Marshall*, iv. 983, 961, 978, 993
„ „ distribution, etc. *See* Birch, Paper
„ „ var. cordifolia, iv. 984
„ „ grandis, iv. 986, 984 note 2
„ „ kenaica, iv. 984
„ „ Lyalliana, iv. 984, 993
„ *pendula*, Roth, iv. 966
„ populifolia, *Marshall*, iv. 987, 960
„ „ bark, iv. 994 note
„ „ hybrid, iv. 986
„ „ leaves, etc., iv. 987, Pl. 269, Fig. 4
„ „ var. laciniata, iv. 987
„ „ pendula, iv. 987
„ „ purpurea, iv. 988

Betula—*continued*
„ pubescens, *Ehrhart*, iv. **962**, 960, 967
„ „ distribution, etc. *See* Birch, Common
„ „ var. aurea, iv. **964**
„ „ carpatica, iv. 963 note 5
„ „ *carpatica*, iv. 963
„ „ denudata, iv. **963**
„ „ Murithii, iv. **963**
„ „ nana, iv. **964**
„ „ *odorata*, iv. 963
„ „ *pontica*, iv. 963 and note 4
„ „ tortuosa, iv. **963**
„ „ urticifolia, iv. **963**
„ „ „ leaves, etc., iv. 964, Pl. 269, Fig. 2
„ pumila, *Linnæus*, iv. 986, 991
„ *rhombifolia*, Tausch, iv. 966
„ *rubra*, Michaux f., iv. 988
„ *tomentosa*, Reitter et Abel, iv. 962
„ ulmifolia, *Siebold and Zuccarini*, iv. **979**, 960, 968, 978, 980 note
„ *urticifolia*, Regel, iv. 963
„ utilis, *Don*, iv. **980**
„ „ distribution, etc. *See* Birch, Himalayan
„ „ var. Jacquemontii, iv. **981**, 961, 982
„ „ „ leaves, etc., iv. 981, Pl. 270, Fig. 15
„ „ Prattii, iv. **981**
„ „ sinensis, iv. **981**
„ verrucosa, *Ehrhart*, iv. **966**, 960, 962 and note 1, 964, 965, 986, 987
„ „ distribution, etc. *See* Birch, Silver
„ „ var. arbuscula, iv. **967**
„ „ atrosanguinea, iv. 968 note 5
„ „ dalecarlica, iv. **967**, 991
„ „ elegans, iv. **968**
„ „ fastigiata, iv. **968**
„ „ japonica, iv. **967**, 968, 980 note
„ „ *laciniata*, iv. 967
„ „ oycowiensis, iv. **967**
„ „ purpurea, iv. **968**
„ „ Youngi, iv. **968**
Betulaster, Spach, iv. 959
Big Tree, iii. **699**. *See* Sequoia gigantea
Bignonia Catalpa, Linnæus, vi. 1485
„ „ Thunberg, vi. 1487
„ *tomentosa*, Thunberg, vi. 1493
Biota, Endlicher, i. 182
Biota Meldensis, Lawson, i. 198
„ *orientalis*, Endlicher, i. 197
„ „ var. *intermedia*, i. 198
„ *pendula*, Endlicher, i. 197
Birch, iv. **959**. *See also* Betula
„ Black, iv. **991**, 989 note 1. *See* Betula lenta
„ „ New Zealand, iii. 549. *See* Nothofagus fusca
„ Canoe. *See* Birch, Paper
„ Cherry, iv. **991**. *See* Betula lenta
„ Common, iv. **962**. *See also* Betula pubescens
„ „ bark, iv. 974
Birch, Common—*continued*
„ „ cultivation, iv. 969
„ „ distribution, iv. 964
„ „ etymology, iv. 966
„ „ Glenmore, gnarled trees in, iv. 972, Pl. 258
„ „ hybrids, iv. 964
„ „ in England, iv. 971
„ „ in Scandinavia, iv. 973
„ „ in Scotland, iv. 972
„ „ in Wales, iv. 972
„ „ leaves, etc., iv. 962, Pl. 269, Fig. 1
„ „ Merton, tree at, iv. 971, Pl. 256
„ „ remarkable trees, iv. 971
„ „ Savernake Forest, tree at, iv. 971, Pl. 255
„ „ Sherwood Forest, self-sown trees in, iv. 971, Pl. 257
„ „ timber, iv. 973
„ „ varieties, iv. 963
„ "Curly," iv. 994
„ Fern-leaved, iv. **967**
„ „ leaves, etc., iv. 967, Pl. 270, Fig. 10
„ Grey, iv. **987**. *See* Betula populifolia
„ Himalayan, iv. **980**. *See also* Betula utilis
„ „ distribution, iv. 982
„ „ leaves, etc., iv. 981, Pl. 269, Fig. 7
„ „ varieties, iv. 981
„ Mountain, New Zealand, iii. 547
„ oil of, iv. 992
„ Paper, iv. **983**. *See also* Betula papyrifera
„ „ bark, iv. 994 and note
„ „ Bicton, tree at, iv. 987, Pl. 259
„ „ cultivation, iv. 986
„ „ distribution, iv. 986
„ „ hybrids, iv. 986
„ „ leaves, etc., iv. 983, Pl. 269, Fig. 5
„ „ varieties, iv. 983
„ Red, iv. **988**. *See* Betula nigra
„ „ New Zealand, iii. 548, 549
„ River, iv. 989 note 1
„ Silver, iv. **966**, 965
„ „ bark, iv. 974
„ „ cultivation, iv. 969
„ „ distribution, iv. 968
„ „ leaves, etc., iv. 966, Pl. 270, Fig. 9
„ „ remarkable trees, iv. 971
„ „ timber, iv. 973
„ „ varieties, iv. 967
„ Silver, New Zealand, iii. 548
„ Weeping, Bonamy's, iv. **968**
„ „ Young's, iv. **968**
„ Yellow, iv. **990**. *See* Betula lutea
Bitternut, iii. **600**. *See* Carya amara
Black Jack, v. **1236**. *See* Quercus marylandica
Blackwood, vii. **1699**. *See* Acacia melanoxylon
Blue Jack, v. **1230**. *See* Quercus cinerea
Bois de resonance, vi. 1358
Botrytis Douglasii. *See* Fungi
Box, vii. **1721**. *See* Buxus
„ etymology, vii. 1727

Box—*continued*
„ Hill, vii. 1727
„ place-names, vii. 1727, 1728
Box, Common, vii. **1724.** *See* Buxus sempervirens
Box Elder, iii. **684.** *See* Acer Negundo *and* Maple, Ash-leaved
Boxwood, vii. 1730
„ "West Indian," vii. 1730 and note 3
Brassaiopsis, Seemann, vii. 1694
Brassaiopsis ricinifolia, Seemann, vii. 1694
Buckeye, Californian, ii. **226.** *See* Æsculus californica
„ Ohio, ii. **223.** *See* Æsculus glabra
„ Sweet, ii. **224.** *See* Æsculus octandra
Buergeria (?) *salicifolia*, Siebold and Zuccarini, vi. 1595
„ *stellata*, Siebold and Zuccarini, vi. 1599
Buna tree, i. 4
Burgundy pitch, vi. 1358
Butternut, ii. **271.** *See* Juglans cinerea
Buttonwood, iii. **627.** *See* Plane, Western
Buxus, Linnæus, vii. **1721**
„ section Buxella, vii. 1721 note 2
„ „ Eu-Buxus, vii. **1721**
„ „ Tricera, vii. 1721 note 2
Buxus *angustifolia*, Miller, vii. 1724
„ *arborescens*, Miller, vii. 1724
„ balearica, *Lamarck*, vii. **1722**, 1723 note 2
„ *Fortunei*, Carrière, vii. 1722 note 4
„ „ *rotundifolia*, vii. 1722 note 1
„ Harlandi, *Hance*, vii. **1722**
„ Henryi, *Mayr*, vii. 1723 note 4
„ japonica, *Müller*, vii. **1721**
„ „ var. *microphylla*, vii. 1722, 1723 note 3
„ *liukiuensis*, Makino, vii. 1723
„ longifolia, *Boissier*, vii. 1723 note 1
„ *longifolia*, Hort., vii. 1722 note 4, 1723 note 1
„ Macowani, vii. 1730
„ microphylla, *Siebold and Zuccarini*, vii. **1722**
„ *myrtifolia*, Lamarck, vii. 1725
„ *sempervirens*, J. D. Hooker, vii. 1723
„ sempervirens, *Linnæus*, vii. **1724**, 1723
„ „ distribution, vii. 1725
„ „ remarkable trees, vii. 1729
„ „ timber, vii. 1730
„ „ var. angustifolia, vii. **1724**
„ „ *arborescens*, vii. 1724 note 2
„ „ argentea, vii. **1725**
„ „ argenteo-marginata, vii. **1725**
„ „ aureo-maculata, vii. **1725**
„ „ aureo-marginata, vii. **1725**
„ „ elegantissima, vii. **1725**
„ „ *gigantea*, vii. 1722
„ „ grandifolia, vii. 1724 note 2
„ „ handsworthensis, vii. **1725**
Buxus sempervirens, *Linnæus—continued*
„ „ var. *humilis*, vii. 1725
„ „ *japonica*, vii. 1721
„ „ latifolia, vii. **1725**
„ „ „ bullata, vii. **1725**
„ „ *liukiuensis*, vii. 1723
„ „ *microphylla*, vii. 1722
„ „ myosotifolia, vii. **1725**
„ „ myrtifolia, vii. **1725**
„ „ *nana*, vii. 1725
„ „ pendula, vii. **1725**
„ „ pyramidalis, vii. **1725**
„ „ riparia, vii. 1722 note 2
„ „ rosmarinifolia, vii. **1725**
„ „ salicifolia elata, vii. 1725
„ „ suffruticosa, vii. **1725**
„ „ *thymifolia*, vii. 1725
„ stenophylla, *Hance*, vii. 1722 note 2
„ *suffruticosa*, Miller, vii. 1725
„ Wallichiana, *Baillon*, vii. **1723**
Bya Kushin tree, vi. 1433

Caithne tree, iii. 561
Callæocarpus, Miquel, vi. 1528
Calocedrus, Kurz, iii. 484
Calocedrus macrolepis, Kurz, iii. 488
Calucechinus, Hombron et Jacquinot, iii. 545
Calucechinus antarctica, Hombron et Jacquinot, iii. 553
„ *Montagnei*, Hombron et Jacquinot, iii. 545 note 3
Calusparassus, Hombron et Jacquinot, iii. 545
Calusparassus betuloides, Hombron et Jacquinot, iii. 551
„ *Forsteri*, Hombron et Jacquinot, iii. 551
Camata, v. 1271
Camatina, v. 1271
Canary-wood, i. 73
Cargillia, R. Brown, iv. 995
Carlomohria, Greene, vi. 1600
Carlomohria carolina, Greene, vi. 1602
Carpinus, Linnæus, iii. **525**
„ key to species, iii. 526
„ section Distegocarpus, Sargent, iii. **525**
„ „ Eu-Carpinus, Sargent, iii. **525**
Carpinus (Ostrya), Linnæus, iii. 540
Carpinus *americana*, Michaux, iii. 531
„ *Betulus*, Koehne, iii. 531
„ Betulus, *Linnæus*, iii. **532**, 526, 531
„ „ distribution, etc. *See* Hornbeam, Common
„ „ var. carpinizza, iii. 533
„ „ incisa, iii. **533**
„ „ purpurea, iii. **533**
„ „ quercifolia, iii. **533**
„ caroliniana, *Walter*, iii. **531**, 526
„ „ leaves, iii. 526, 531, Pl. 201, Fig. 6
„ „ var. tropicalis, iii. 532 note
„ *carpinizza*, Host, iii. 532
„ *Carpinus*, Sargent, iii. 528
„ *compressa*, Gilbert, iii. 532
„ cordata, *Blume*, iii. 529, 525, 526

Carpinus cordata, *Blume—continued*
„ „ leaves, iii. 526, 529, Pl. 201, Fig. 2
„ „ var. chinensis, iii. 530
„ *duinensis*, Scopoli, iii. 527
„ *Fargesii*, Franchet, iii. 530
„ *intermedia*, Wierzbicki, iii. 532
„ japonica, *Blume*, iii. **528**, 525, 526, 530
„ „ leaves, iii. 526, 528, Pl. 201, Fig. 1
„ laxiflora, *Blume*, iii. **530**, 526
„ „ leaves, iii. 526, 530, Pl. 201, Fig. 8
„ „ varieties, iii. 531 note
„ *nervata*, Dulac, iii. 532
„ *nigra*, Moench, iii. 527
„ orientalis, *Miller*, iii. **527**, 526
„ „ leaves, iii. 526, 527, Pl. 201, Fig. 7
„ *Ostrya*, Linnæus, iii. 540, 543
„ polyneura, *Franchet*, iii. **527**, 526
„ „ leaves, iii. 526, 527, Pl. 201, Fig. 5
„ *sepium*, Lamarck, iii. 532
„ *Turczaninowii*, Hance, iii. 528
„ „ var. *polyneura*, iii. 527
„ *ulmoides*, Gray, iii. 532
„ *virginiana*, Miller, iii. 543
„ *vulgaris*, Miller, iii. 532
„ yedoensis, *Maximowicz*, iii. **529**, 526
„ „ leaves, iii. 526, 529, Pl. 201, Fig. 3
Carrasca tree, v. 1284
Carvalho negro tree, v. 1315
„ cerquinho tree, v. 1315
CARYA, Nuttall, iii. **597**
„ key to species, iii. 598
„ section APOCARYA, De Candolle, iii. **598**
„ „ EUCARYA, De Candolle, iii. **598**
Carya *alba*, Koch, iii. 606
„ alba, *Nuttall*, iii. **601**, 597 note 2, 598
„ „ Brocklesby Park, tree at, iii. 603, Pl. 173
„ „ distribution, iii. 602
„ „ in England, iii. 602, 603
„ „ in Ireland, iii. 604
„ „ in Scotland, iii. 604
„ „ leaves, iii. 598, 602, Pl. 203, Fig. 1
„ amara, *Nuttall*, iii. **600**, 598
„ „ Bute House, tree at, iii. 601, Pl. 170
„ „ distribution, iii. 600
„ „ leaves, iii. 598, 600, Pl. 203, Fig. 5
„ „ Syston Park, trees at, iii. 601, Pl. 171
„ *angustifolia*, Sweet, iii. 599
„ aquatica, *Nuttall*, iii. 598 note
„ *cordiformis*, Koch, iii. 605
„ „ Schneider, iii. 600; Errata, 1939
„ *glabra*, Schneider, iii. 604 note
„ „ Spach, iii. 604
„ *illinoensis*, Koch, iii. 599
„ *laciniosa*, Schneider, iii. 605
„ microcarpa, *Nuttall*, iii. 605
„ *obcordata*, Sweet, iii. 604
„ olivæformis, *Nuttall*, iii. **599**, 598; iv. 899
Carya olivæformis, *Nuttall—continued*
„ „ introduction into England, iii. 600
„ „ leaves, iii. 598, 599, Pl. 203, Fig. 6
„ *ovata*, Schneider, iii. 601
„ *Pecan*, Schneider, iii. 599
„ porcina, *Nuttall*, iii. **604**, 597 note 2, 598
„ „ Kew, tree at, iii. 605, Pl. 172
„ „ leaves, iii. 598, 604, Pl. 203, Fig. 2
„ „ var. *odorata*, iii. 605
„ *pubescens*, Sweet, iii. 605
„ sulcata, *Nuttall*, iii. **605**, 598
„ „ leaves, iii. 598, 606, Pl. 203, Fig. 4
„ tomentosa, *Nuttall*, iii. **606**, 598, 602 note 1
„ „ distribution, iii. 607
„ „ leaves, iii. 607, Pl. 203, Fig. 3
CARYOTAXUS, Zuccarini, vi. 1461
Caryotaxus grandis, Henkel and Hochstetter, vi. 1464
„ *Myristica*, Henkel and Hochstetter, vi. 1465
„ *nucifera*, Zuccarini, vi. 1463
„ *taxifolia*, Henkel and Hochstetter, vi. 1466
CASANOPHORUM, Necker, iv. 837
Castagno della Nave, iv. 843
„ della Navota, iv. 843
„ di Cento Cavalli, iv. 842, 843
„ di Santa Agata, iv. 843
CASTANEA, Adanson, iv. **837**. *See also* Chestnut
„ key to species, iv. 838
CASTANEA, Endlicher, vi. 1528
Castanea alnifolia, *Nuttall*, iv. 838
„ *americana*, Rafinesque, iv. 856
„ *Castanea*, Karsten, iv. 839
„ *chrysophylla*, Douglas, vi. 1528
„ „ var. *minor*, vi. 1529
„ crenata, *Siebold and Zuccarini*, iv. **854**, 838. *See also* Chestnut, Japanese
„ Davidii, *Dode*, iv. 855 note 1
„ dentata, *Borkhausen*, iv. **856**, 838, 858 note 3. *See also* Chestnut, American
„ Duclouxii, *Dode*, iv. 854 note 4
„ *equina*, Matthiolus, ii. 213
„ Fargesii, *Dode*, iv. 854 note 4
„ hupehensis, *Dode*, iv. 855 note 1
„ *japonica*, Blume, iv. 854
„ mollissima, *Blume*, iv. 855
„ neglecta, *Dode*, iv. 858 note 3
„ *pubinervis*, Schneider, iv. 854
„ pumila, *Miller*, iv. **857**, 838, 855
„ „ leaves, iv. 858, Pl. 202, Fig. 12
„ sativa, *Miller*, iv. **839**, 838, 856
„ „ distribution, etc. *See* Chestnut, Spanish
„ „ var. *acuminatissima*, iv. 854
„ „ *americana*, iv. 856
„ „ argentea, iv. 840
„ „ argenteo-marginata, iv. 840
„ „ argenteo-variegata, iv. 840
„ „ aspleniifolia, iv. **840**
„ „ aureo-maculata, iv. 840
„ „ aureo-marginata, iv. 840

Castanea sativa, *Miller—continued*
„ „ var. aureo-variegata, iv. 840
„ „ cochleata, iv. **841**
„ „ glabra, iv. **841**
„ „ heterophylla, iv. **840**
„ „ *laciniata*, iv. 840
„ „ marginata, iv. 840
„ „ pendulifolia, iv. **841**
„ „ prolifera, iv. **841**
„ „ rotundifolia, iv. **841**
„ Seguinii, *Dode*, iv. 855 note 1
„ *sempervirens*, Kellogg, vi. 1529
„ *vesca*, Gaertner, iv. 839
„ „ var. *americana*, iv. 856
„ „ *pubinervis*, iv. 854
„ *vulgaris*, Lamarck, iv. 839
„ „ var. *americana*, iv. 856
„ „ *japonica*, iv. 854
„ „ *yunnanensis*, iv. 854
CASTANOPSIS, Spach, vi. **1528**; iv. 838 note 1, 841
Castanopsis chrysophylla, *A. de Candolle*, vi. **1528**
„ „ leaves, iii. Pl. 202, Fig. 10, vi. 1528
„ „ var. minor, vi. **1529**, 1530
„ „ *pumila*, vi. 1529
„ „ sempervirens, vi. **1529**
„ *sempervirens*, Dudley, vi. 1529
CATALPA, Scopoli, vi. **1481**
„ section *CORYMBOSÆ*, Bureau, vi. 1481 note 2
„ „ *THYRSOIDEÆ*, Bureau, vi. 1481 note 2
Catalpa bignonioides, *Walter*, vi. **1485**, 1482, 1483, 1489
„ „ Ham Manor, tree at, vi. 1487, Pl. 350
„ „ leaves, iii. Pl. 204, Fig. 5; vi. 1485
„ „ var. aurea, vi. **1485**
„ „ erubescens, vi. **1486**
„ „ Koehnei, vi. **1486**
„ „ nana, vi. **1486**
„ „ purpurea, vi. **1485**
„ „ variegata, vi. **1486**
„ *Bungei*, Decaisne, vi. 1487
„ Bungei, *C. A. Meyer*, vi. **1489**, 1482
„ „ var. *heterophylla*, vi. 1490
„ *Catalpa*, Karsten, vi. 1485
„ Common, vi. **1485**. *See* Catalpa bignonioides
„ *communis*, Dumont de Courset, vi. 1485
„ *cordifolia*, Jaume, vi. 1483
„ „ Moench, vi. 1485
„ *Duclouxii*, Dode, vi. 1489; Errata, 1942
„ *erubescens*, Carrière, vi. 1486
„ Fargesi, *Bureau*, vi. **1490**, 1482
„ *Henryi*, Dode, vi. 1487
„ *heterophylla*, Dode, vi. 1489
„ hybrida, *Späth*, vi. 1488
„ japonica, *Dode*, vi. 1489
„ × *J. C. Teas*, Sargent, vi. 1488
„ Kaempferi, *Siebold and Zuccarini*, vi. **1487**, 1482
Catalpa Kaempferi, *Siebold and Zuccarini—cont.*
„ „ leaves, iii. Pl. 204, Fig. 6; vi. 1487
„ *ovata*, G. Don, vi. 1487; Errata, 1942
„ speciosa, *Warder*, vi. **1483**, 1482, 1489
„ „ cultivation, vi. 1484
„ *sutchuenensis*, Dode. *See* Errata, 1942
„ *syringæfolia*, Bunge, vi. 1489
„ *syringifolia*, Sims, vi. 1485
„ *Teasiana*, Dode, vi. 1488
„ *vestita*, Diels, vi. 1490
„ Western, vi. **1483**. *See* Catalpa speciosa
Cedar, iii. **451**; i. 185. *See also* Cedrus
„ Atlas or Algerian, iii. **469**. *See also* Cedrus atlantica
„ „ Ashampstead, tree at, iii. 475, Pl. 137
„ „ cultivation, iii. 473
„ „ distribution, iii. 470
„ „ Fota, tree at, iii. 476, Pl. 138
„ „ hardiness of, iii. 481
„ „ in England and Scotland, iii. 475
„ „ in France, iii. 476
„ „ in Ireland, iii. 476
„ „ in Italy, iii. 476
„ „ relative rate of growth of Lebanon and, iii. 474
„ „ remarkable trees, iii. 475
„ „ Téniet-el-Hâad, trees at, iii. 473, Pl. 136
„ „ timber, iii. 473
„ „ varieties, iii. 469
„ Cyprus, iii. **467**. *See also* Cedrus brevifolia
„ „ in England, iii. 469
„ Incense, iii. **489**. *See also* Libocedrus decurrens
„ Lebanon, iii. **453**. *See also* Cedrus Libani
„ „ adventitious roots, iii. 460
„ „ Arabic name, iii. 457
„ „ Bayfordbury, trees at, iii. 462
„ „ Birchanger Place, tree at, iii. 463, Pl. 134
„ „ Blenheim, tree at, iii. 462, Pl. 132
„ „ cultivation, iii. 459
„ „ distribution, iii. 454
„ „ Dropmore, avenue at, iii. 464, Pl. 135
„ „ dwarf, iii. 453
„ „ glaucous, iii. 464, 475
„ „ Goodwood, tree at, iii. 460, Pl. 129
„ „ Highclere Castle, trees at, iii. 461 and Frontispiece
„ „ hybrids, iii. 454
„ „ in England, iii. 458-464, 466
„ „ in France, iii. 466
„ „ in Ireland, iii. 466
„ „ in Scotland, iii. 464
„ „ in Wales, iii. 464
„ „ introduction, iii. 458
„ „ Langley Park, tree at, v. 1257
„ „ Mount Lebanon, tree on, iii. 457, Pl. 127

Cedar, Lebanon—*continued*
„ „ Pains Hill, tree at, iii. 460, Pl. 128
„ „ Petworth, tree at, iii. 462, Pl. 131
„ „ relative rate of growth of Atlas and, iii. 474
„ „ remarkable trees, iii. 460
„ „ Strathfieldsaye, tree at, iii. 461, Pl. 130
„ „ Stratton Strawless, tree at, iii. 463, Pl. 133
„ „ timber, iii. 466
„ „ transplantation, iii. 460
„ „ trees associated with, iii. 457
„ „ varieties, iii. 453
„ „ Wilton, tree at, iii. 459
„ of Goa, v. 1177, 1178
„ oil of, vi. 1443
„ Pencil, vi. **1435**, 1399. *See* Juniperis virginiana
„ Red (Thuya plicata), i. 185
„ seedling, iii. 452; Errata, 1939
„ of West Indies. *See* Cedrela odorata
„ White (Cupressus thyoides), v. 1212
„ „ in North Carolina, v. 1212, Pl. 311
„ „ (Lawson Cypress), v. 1209
„ „ submerged forests, v. 1213
„ „ (Tabebuia pentaphylla), vii. 1730 note 3
„ „ (Thuya occidentalis), i. 193
„ Yellow (Cupressus nootkatensis), v. 1195
CEDRELA, Linnæus, ii. **433**
„ section EU-CEDRELA, ii. **433**
„ „ TOONA, ii. **433**
Cedrela odorata, ii. 435; iii. 466; iv. 944
„ „ timber, vi. 1442
„ sinensis, *A. Jussieu*, ii. **433**; i. 31
„ „ branchlets and buds, ii. 434, Pl. 126, Fig. 2
„ „ Chinese name, ii. 434
„ „ leaves, ii. 433, Pl. 125, Fig. 7
Cedro tree, vi. 1413
CEDRUS, Lawson, iii. **451**. *See also* Cedar
Cedrus *africana*, Knight, iii. 469
„ *argentea*, Hort., iii. 454
„ „ Renou, iii. 469 note 3
„ atlantica, *Manetti*, iii. **469**, 455, 464, 481; iv. 815
„ „ distribution, etc. *See* Cedar, Atlas or Algerian
„ „ var. aurea, iii. **469** note 7
„ „ columnaris, iii. **469**
„ „ fastigiata, iii. **469** and note 6, 475
„ „ glauca, iii. **469**
„ „ pyramidalis, iii. **469**
„ brevifolia, iii. **467**
„ Deodara, *Lawson*, iii. **476**, 455
„ „ distribution, etc. *See* Deodar
„ „ var. albo-spica, iii. **477**
„ „ crassifolia, iii. **477**
„ „ fastigiata, iii. **477**
„ „ nivea, iii. 477
„ „ robusta, iii. **477**
Cedrus Deodara, *Lawson*—*continued*
„ „ var. verticillata, iii. **477**
„ „ viridis, iii. **477**
„ *indica*, Chambray, iii. 476
„ Libani, *Barrelier*, iii. **453**, 474, 481, 486 note 1; v. 1038
„ „ distribution, etc. *See* Cedar, Lebanon
„ „ var. argentea, iii. **453**
„ „ *brevifolia*, iii. 467
„ „ decidua, iii. **453**
„ „ *Deodara*, iii. 476
„ „ nana, iii. **453**
„ „ pendula, iii. **453**
„ „ stricta, iii. **453**
„ „ tortuosa, iii. **453**
„ „ viridis, iii. **453**
„ *Libani*, Mathieu, iii. 469
„ *patula*, Koch, iii. 453
CELTIS, Linnæus, iv. **925**
„ key to species, iv. 925
„ sub-genera EUCELTIS, iv. **925**
Celtis *Audibertiana*, Spach, iv. 932
„ *australis*, Brandis, iv. 928
„ australis, *Linnæus*, iv. **926**, 931
„ „ leaves, iv. 926, Pl. 267, Fig. 5
„ *Bungeana*, Blume, iv. 929
„ caucasica, *Willdenow*, iv. **928**, 926, 927
„ „ var. cuspidata, iv. 928
„ *cordata*, Persoon, iv. 932
„ crassifolia, *Lamarck*, iv. **932**, 926, 930, 931
„ Davidiana, *Carrière*, iv. **929**, 925
„ „ leaves, iv. 929, Pl. 267, Fig. 11
„ glabrata, *Steven*, iv. **929**, 926
„ „ leaves, iv. 929, Pl. 267, Fig. 10
„ *lævigata*, Willdenow, iv. 933
„ mississippiensis, *Bosc*, iv. **933**, 926, 931
„ „ leaves, iv. 933, Pl. 267, Fig. 9
„ „ var. *reticulata*, iv. 934 note
„ occidentalis, *Linnæus*, iv. **930**, 926, 927, 932, 933
„ „ leaves, iv. 930, Pl. 267, Fig. 4
„ „ var. *integrifolia*, iv. 933
„ „ *reticulata*, iv. 934 note
„ „ West Dean Park, tree at, iv. 931, Pl. 251
„ *occidentalis*, Sargent, iv. 932, 933
„ pumila, *Pursh*, iv. 930
„ reticulata, *Torrey*, iv. 931, 934
„ *sinensis*, Persoon, iv. 929
„ Tournefortii, *Lamarck*, iv. 929
„ „ var. *glabrata*, iv. 929
CEPHALOTAXUS, Siebold and Zuccarini, vi. **1468**; i. 99; vi. 1462
Cephalotaxus *Buergeri*, Miquel, vi. 1471
„ *coriacea*, Knight and Perry, vi. 1469 note 4
„ drupacea, *Siebold and Zuccarini*, vi. **1469**, 1472
„ „ var. *Harringtonia*, vi. 1471
„ „ *pedunculata*, vi. 1471
„ Fortuni, *W. J. Hooker*, vi. **1470**, 1468 note 1, 1472
„ Griffithii, *Hooker*, vi. 1468 note 4
„ *Harringtonia*, Koch, vi. 1471

Cephalotaxus—*continued*
„ Mannii, *Hooker*, vi. 1468 note 4
„ Oliveri, *Masters*, vi. 1468 note 4
„ pedunculata, *Siebold and Zuccarini*, vi. 1471
„ „ var. fastigiata, vi. 1471
„ „ sphæralis, vi. 1471
Cerasus acida, Gaertner, vi. 1541
„ *Avium*, Moench, vi. 1535
„ *Capollin*, De Candolle, vi. 1547
„ *Capuli*, Lavallée, vi. 1547
„ *cornuta*, Royle, vi. 1544
„ *Pontanesiana*, Spach, vi. 1536
„ *Laurocerasus*, Loiseleur, vi. 1551
„ *lusitanica*, Loiseleur, vi. 1553
„ *Mahaleb*, Miller, vi. 1542
„ *Padus*, De Candolle, vi. 1543
„ *semperflorens*, De Candolle, vi. 1541
„ *serotina*, Loiseleur, vi. 1546
„ *sylvestris*, Loudon, vi. 1535
„ *virginiana*, Michaux, vi. 1546
„ *vulgaris*, Miller, vi. 1541
Ceratostachys, Blume, iii. 508
Cerquinho tree, v. 1315
Cerro tree, v. 1264
Chætoptelea, Liebmann, vii. 1847
Chamæbetula, Opiz, iv. 959
Chamæcyparis, Spach, v. 1146
Chamæcyparis Boursierii, Carrière, v. 1200
„ „ Decaisne, v. 1200 note 3
„ *breviramea*, Maximowicz, v. 1185, 1186
„ *formosensis*, Matsumura, v. 1149
„ *Lawsoniana*, Parlatore, v. 1200
„ *leptoclada*, Henkel and Hochstetter, v. 1211
„ *nootkatensis*, Sargent, v. 1194
„ *nutkaënsis*, Spach, v. 1194
„ *obtusa*, Siebold and Zuccarini, v. 1185
„ „ var. *lycopodioides*, v. 1186
„ „ *pendula*, v. 1187 note 1
„ „ *tetragona aurea*, v. 1186
„ *pendula*, Maximowicz, v. 1185, 1187
„ *pisifera*, Siebold and Zuccarini, v. 1190
„ „ var. *filifera*, v. 1192
„ „ *plumosa*, v. 1191
„ *sphæroidea*, Spach, v. 1210
„ *squarrosa*, Siebold and Zuccarini, v. 1190
„ *thurifera*, Endlicher, v. 1150
„ *thyoides*, Britton, Steens, and Poggenburg, v. 1210
Chamærops, Martius, vii. 1690
Chamærops excelsa, Martius, vii. 1690, 1691
„ „ Thunberg, vii. 1690 note 2
„ *Fortunei*, W. J. Hooker, vii. 1690, 1691
„ humilis, *Linnæus*, vii. 1691, 1693 and note 4
Chaparro tree, v. 1284
Cheimatobia boreata, etc. *See* Insects
Chêne à feuilles d'Ægilops, v. 1259
„ blanc, v. 1263
Chêne de Gibraltar, v. 1261
„ de juin, ii. 286
„ Turnère, v. 1288, 1289
Chengey-ny-mraane tree, vii. 1789
Chequers, fruit of Pyrus torminalis, i. 153
Chermes. *See* Insects
Cherry, vi. **1534**
„ "All Saints'," vi. 1541
„ American Black, vi. **1546**. *See* Prunus serotina
„ Bigarreau, vi. **1536**
„ Bird, vi. **1543**, 1534. *See* Prunus Padus
„ Duke, vi. **1536**
„ Dwarf, vi. **1541**. *See* Prunus Cerasus
„ Gean, vi. **1536**
„ Laurels, vi. **1535**
„ St. Lucie, vi. **1542**. *See* Prunus Mahaleb
„ Wild, vi. **1535**. *See* Prunus Avium
Chestnut, iv. **837**. *See also* Castanea
„ American, iv. **856**. *See also* Castanea dentata
„ „ leaves, iv. 856, Pl. 202, Fig. 13
„ „ timber, iv. 857
„ bark disease, iv. 858 note 6
„ Japanese, iv. **854**. *See also* Castanea crenata
„ „ Atera, tree at, iv. 855, Pl. 237
„ „ Chinese names, iv. 855
„ „ Japanese name, iv. 855
„ Spanish, iv. **839**. *See also* Castanea sativa
„ „ an avenue tree, iv. 847
„ „ Bicton, grove at, iv. 846, Pl. 232
„ „ branchlets and buds, iv. 839, Pl. 200, Fig. 1
„ „ coppice-wood, iv. 845
„ „ cultivation, iv. 844
„ „ distribution, iv. 841
„ „ etymology, iv. 844
„ „ finest existing, iv. 850
„ „ fruit, iv. 853
„ „ grafting of, on oak, iv. 845
„ „ Harleston, Althorp, tree at, iv. 849, Pl. 233
„ „ identification, iv. 839
„ „ in England, iv. 847-850
„ „ in Ireland, iv. 851
„ „ in Scotland, iv. 850
„ „ in Wales, iv. 850
„ „ leaves, iv. 839, Pl. 202, Fig. 11
„ „ park fencing, iv. 853
„ „ products, miscellaneous, iv. 852
„ „ remarkable trees, iv. 847
„ „ Rossanagh, tree at, iv. 851, Pl. 236
„ „ Rydal Hall, tree at, iv. 850, Pl. 235
„ „ seedlings, natural, iv. 844
„ „ tanning extract, iv. 854 and note 1
„ „ Thoresby, tree at, iv. 849, Pl. 234
„ „ timber, iv. 852

Chestnut, Spanish—*continued*
„ „ timber used for chancel screen, iv. 852 note 1
„ „ Tortworth, tree at, iv. 847
„ „ variegated forms, iv. 840
„ „ varieties, iv. 840
„ „ Wymondley, tree at, vii. 1728 note 9
„ Sweet. *See* Chestnut, Spanish
Chilghoza, seeds of Pinus Gerardiana used for food, v. 1053
Chinquapin, iv. **857**. *See* Castanea pumila
Chin-sung or Chin-lo-sung tree, vi. 1479
Chip-braid, i. 88
Ch'iu tree, vi. 1490
Chosen-gaya tree, vi. 1472
Chosen-matsu tree, v. 1042 note 6
Ch'ui-yang-liu tree, vii. 1752 note 4
Ch'un trees, i. 32
Chusan Palm, vii. 1690
Cladoptosis, vii. 1771 note
CLADRASTIS, Rafinesque, ii. **445**
„ section EU-CLADRASTIS, ii. **445**
„ „ MAACKIA, ii. **445**; i. 39 and note 8
Cladrastis amurensis, *Bentham et Hooker*, ii. **449**; i. 39 note 8; ii. 446
„ „ branchlets and buds, ii. 449, Pl. 126, Fig. 5
„ „ leaves, ii. 449, Pl. 125, Fig. 6
„ „ var. *Buergeri*, ii. 449
„ *fragrans*, Rafinesque, ii. 446
„ *lutea*, Koch, ii. 446
„ sinensis, *Hemsley*, ii. **450**, 445
„ sp.? *Hemsley*, ii. 446 note 3
„ Tashiroi, *Yatabe*, ii. **446**
„ tinctoria, *Rafinesque*, ii. **446**, 445
„ „ branchlets and buds, ii. 447, Pl. 126, Fig. 4
„ „ cultivation, ii. 447
„ „ distribution, ii. 447
„ „ identification, ii. 447
„ „ leaves, ii. 446, Pl. 125, Fig. 5
„ „ remarkable trees, ii. 448
„ „ seedling, ii. 447
„ „ Syon, tree at, ii. 448, Pl. 124
„ „ timber, ii. 448
CLETHROPSIS, Spach, iv. 935
Clethropsis nitida, Spach, iv. 954
Clogs, iv. 943, 944
Coccus, Beech, etc. *See* Insects
Coelogyne ochracea. *See* Plants, Miscellaneous
Coffee tree, Kentucky, ii. **428**. *See* Gymnocladus canadensis
Coigue tree, i. 48; iii. 555
Coleophora laricella. *See* Insects
Coleosporium Pini. *See* Fungi
Corchorus hirtus, Thunberg, iv. 920
Cork, v. 1276, 1296
Cormus domestica, Spach, i. 146
„ *foliolosa*, Franchet, vi. 1576 note 2
CORYLUS, Linnæus, iii. **520**
Corylus *avellana* × *C. Colurna*, Rehder, iii. 522
„ *chinensis*, Franchet, iii. 521
Corylus—*continued*
„ Colurna, *Linnæus*, iii. **520**
„ „ branchlets and buds, iii. 522, Pl. 126, Fig. 6
„ „ cultivation, iii. 523
„ „ distribution, iii. 522
„ „ hybrid, iii. 522
„ „ identification, iii. 522
„ „ remarkable trees, iii. 523
„ „ seedling, iii. 521
„ „ timber, iii. 524
„ „ var. chinensis, iii. 521
„ „ glandulifera, iii. 521
„ „ lacera, iii. 521
„ „ Wollaton Hall, tree at, iii. 524, Pl. 147
„ intermedia, *Loddiges*, iii. **522**
„ *lacera*, Wallich, iii. 521
Cratægo-Mespilus Asnieresi, vii. 1732
„ „ Dardari, vii. 1732
CRATÆGUS, Linnæus, vii. **1731**
„ hybrids, vii. 1732
Cratægus *Aria*, Linnæus, i. 166
„ „ var. *scandica*, i. 159
„ „ *suecica*, i. 159
„ azarella, *Griseback*, vii. 1734 note 3
„ brevispina, *Kunze*, vii. 1734 note 3
„ *flabellifolia*, Spach, i. 167 note 3
„ granatensis, *Boissier*, vii. 1734 note 3
„ *grandiflora*, Koch, vii. 1732
„ hirsuta, *Schur*, vii. 1734 note 3
„ Insegnæ, *Bertolini*, vii. 1734 note 3
„ intermixta, *Beck*, vii. 1734
„ kyrtostyla, *Fingerhut*, vii. **1733** note 3
„ *latifolia*, Lamarck, i. 155
„ *lobata*, Bosc, vii. 1732
„ *macrocarpa*, Hegetschweiler, vii. 1741, note
„ media, *Bechstein*, vii. 1734
„ microphylla, *Koch*, vii. 1736 note 2
„ monogyna, *Jacquin*, vii. **1733**, 1732
„ „ cultivation, vii. 1738
„ „ Hethel, tree at, vii. 1738, Pl. 378
„ „ hybrids, vii. 1734
„ „ timber, vii. 1739
„ „ var. *alba plena*, vii. 1740
„ „ eriocarpa, vii. **1736**
„ „ ferox, vii. **1735**
„ „ filicifolia, vii. **1735**
„ „ flexuosa, vii. **1734**
„ „ foliis argenteis, vii. **1735**
„ „ „ aureis, vii. **1735**
„ „ inermis compacta, vii. 1734 note 4
„ „ laciniata, vii. **1735**
„ „ *macrocarpa*, vii. 1737 note 3
„ „ maurianensis, vii. **1737**
„ „ *Pauli*, vii. 1741
„ „ pendula, vii. **1734**
„ „ „ rosea, vii. **1735**
„ „ „ variegata, vii. **1735**

Cratægus monogyna, *Jacquin—continued*
„ „ var. *pinnatiloba*, vii. 1736 note 2
„ „ præcox, vii. **1736**
„ „ ramulis aureis, vii. **1735**
„ „ reginæ, vii. 1735
„ „ salisburifolia, vii. **1734**
„ „ semperflorens, vii. **1736**
„ „ *splendens* (Druce), vii. 1737 note 4
„ „ „ (Koch), vii. 1737 note 4
„ „ stricta, vii. **1735**
„ „ *xanthoclada*, vii. 1735
„ oxyacantha, *Linnæus*, vii. **1739**, 1737
„ „ distribution, vii. 1742
„ „ hybrids, vii. 1732, 1734
„ „ sub-sp. *monogyna*, Hooker, vii. 1733
„ „ „ var. *polyacantha*, vii. 1741
„ „ „ *oxyacanthoides*, Hooker, vii. 1739
„ „ var. aurea, vii. **1741**
„ „ *auriculata*, vii. 1740 note 1
„ „ candido-plena, vii. 1740 note 2
„ „ coccinea flore pleno, vii. **1741**
„ „ *eriocarpa*, vii. 1736
„ „ *ferox*, vii. 1735
„ „ *filicifolia*, vii. 1735
„ „ *flexuosa*, vii. 1734
„ „ *flore pleno albo*, vii. 1740
„ „ „ *puniceo*, vii. 1740
„ „ „ *rubro pleno*, vii. 1741
„ „ *floribus coccineis plenis*, vii. 1741
„ „ *folio et fructu majore*, vii. 1737 note 4
„ „ Gireoudi, vii. **1741**
„ „ Gumpperii bicolor, vii. **1740**
„ „ *horrida*, vii. 1735
„ „ *integrifolia*, vii. 1740 note 1
„ „ *laciniata*, vii. 1735
„ „ leucocarpa, vii. **1741**
„ „ *macrocarpa*, vii. 1741 note
„ „ *monogyna*, vii. 1733
„ „ multiplex, vii. **1740**
„ „ *pendula*, vii. 1734
„ „ *præcox*, vii. 1736
„ „ punicea, vii. **1740**
„ „ „ flore pleno, vii. **1741**
„ „ rosea, vii. **1740**
„ „ *salisburiæfolia*, vii. 1734
„ „ *semperflorens*, vii. 1736
„ „ *stricta*, vii. 1735
„ „ *vulgaris*, vii. 1739
„ „ *xanthocarpa*, vii. 1741
„ *oxyacantha*, Linnæus, vii. 1733
„ *oxyacantho-germanica*, Gillot, vii. 1732
„ *oxyacanthoides*, Thuillier, vii. 1733 note 1, 1739
Cratægus—*continued*
„ polyacantha, *Jan*, vii. **1741**
„ *torminalis*, Linnæus, i. 151
Cratæmespilus grandiflora, Camus, vii. 1732
Crithean or Critheac tree, vii. 1789
Cryptococcus fagi. *See* Insects
CRYPTOMERIA, D. Don, i. **127**
Cryptomeria *elegans*, Veitch, i. 130; vi. 1449
„ *Fortunei*, Hooibrenk, i. 129 note 2
„ japonica, *Don*, i. **128**; ii. 202
„ „ Chinese names, i. 132
„ „ cultivation, i. 138
„ „ fossil, i. 134 note
„ „ Hemsted, tree at, i. 139, Pl. 42; iii. 696
„ „ identification, i. 131
„ „ in China, i. 131
„ „ in England, i. 139
„ „ in Ireland and Scotland, i. 140
„ „ in Japan, i. 132-136, Plates 38, 39, 40, and 41
„ „ introduction, i. 131
„ „ layering at Kitlands, i. 139
„ „ „ Woodstock, i. 140
„ „ remarkable trees, i. 139
„ „ resin, i. 138
„ „ self-sown, i. 138
„ „ timber, i. 136
„ „ variegated forms, i. 130
„ „ var. araucarioides, i. **129**, 140
„ „ dacrydioides, i. **130**
„ „ elegans, i. **130**, 140
„ „ „ Japanese name, i. 130
„ „ „ Tregothnan, tree at, i. 130, Pl. 37
„ „ elegans nana, i. **130**
„ „ Fortunei, i. **129**, 140
„ „ japonica, i. **129**
„ „ Lobbii, i. **129**, 131, 139, 140
„ „ nana, i. **130**
„ „ pungens, i. **129**
„ „ „ rubiginosa, i. 129 note 6
„ „ *sinensis*, i. 129
„ „ spiralis, i. **130**, 140
Cucumber tree, vi. **1586**. *See* Magnolia acuminata
Cucurbitaria piceæ. *See* Fungi
Cuerun tree, vi. 1580
Cuince tree, iii. 561
CUNNINGHAMIA, R. Brown, iii. **494**
„ new species in Formosa, iii. 494 note 2; Errata, 1939
„ root-suckers in, iii. 495
Cunninghamia *cupressoides*, Zuccarini, vi. 1452
„ Konishii, *Hayata*. *See* Errata, 1939
„ *lanceolata*, W. J. Hooker, iii. 494
„ *selaginoides*, Zuccarini, vi. 1450
„ sinensis, *R. Brown*, iii. **494**; i. 43
„ „ Bagshot Park, tree at, iii. 497, Pl. 143
„ „ remarkable trees, iii. 497
„ „ timber, iii. 497

Cunninghamites, iii. 494 note 3
CUPRESSUS, Linnæus, v. **1146**
„ key to species, v. 1147
„ section CHAMÆCYPARIS, v. **1149**, 1147
„ „ EU-CUPRESSUS, v. **1147**
CUPRESSUS, Masters, ii. 201
Cupressus *americana*, Parkinson, i. 178
„ „ Trautvetter, v. 1194
„ *amœna*, Koch, v. 1162
„ arizonica, *Greene*, v. **1183**, 1178
„ *attenuata*, Gordon, v. 1171, 1172
„ *australis*, Koch, v. 1152
„ Bakerii, *Jepson*, v. 1174
„ *Benthami*, Endlicher, v. 1177, 1178, 1183
„ „ var. *arizonica*, v. 1183
„ *californica*, Carrière, v. 1171, 1172
„ cashmeriana, *Royle*, v. **1161**, 1148
„ *conoidea*, Spadoni, v. 1152
„ *Corneyana*, Knight and Perry, v. 1158, 1159
„ cornuta, *Carrière*, v. 1171 note 2
„ *Coulteri*, Forbes, v. 1176, 1179 note 2
„ *disticha*, Linnæus, i. 173
„ „ var. *imbricaria*, i. 173
„ *Doniana*, Koch, v. 1152
„ *Ehrenbergii*, Kunze, v. 1176
„ *elegans*, Low, v. 1177, 1183
„ *excelsa*, Scott, v. 1177
„ *fastigiata*, De Candolle, v. 1151, 1152
„ *flagelliformis*, Knight and Perry, v. 1159 note 1
„ formosensis, *Henry*, v. **1149**
„ *fragrans*, Kellogg, v. 1200
„ funebris, *Endlicher*, v. **1162**, 1147; vi. 1435
„ „ var. *glauca*, v. 1161
„ *funebris*, Koch, v. 1159
„ *glandulosa*, Hooker, v. 1174
„ *glauca*, Lamarck, v. 1176
„ Goveniana, *Gordon*, v. **1171**, 1148, 1167 note 2
„ „ Dropmore, tree at, v. 1173, Pl. 299
„ „ var. attenuata, v. **1172**
„ „ pendula, v. **1172**
„ „ pygmæa, v. **1172**, 1173 note 3
„ „ Sargentii, v. 1173 note 5
„ *Goveniana*, Jepson, v. 1172
„ *guadalupensis*, Sargent, v. 1183, 1185
„ „ S. Watson, v. 1165, 1166
„ *Hartwegii*, Carrière, v. 1165
„ Hodginsii, *Dunn*, v. **1150**
„ *horizontalis*, Miller, v. 1151, 1152
„ *Hügelii*, v. 1183
„ *Karwinskyana*, Regel, v. 1176
„ *Knightiana*, Knight and Perry, v. 1177, 1181, 1183 note 1
„ *Lambertiana*, Carrière, v. 1165, 1169
„ Lawsoniana, *Murray*, v. **1200**, 1146 notes 2 and 3, 1149, 1194
„ „ Castlewellan, trees at, v. 1209, Pl. 310
Cupressus Lawsoniana, *Murray—continued*
„ „ cultivation, v. 1205
„ „ distribution, v. 1204
„ „ Killerton, trees at, v. 1208, Pl. 309
„ „ in England, v. 1207, 1208
„ „ in Germany, v. 1207
„ „ in Ireland, v. 1209
„ „ in Oregon, v. 1204, 1205
„ „ in Scotland, v. 1208
„ „ in Wales, v. 1208
„ „ remarkable trees, v. 1208
„ „ timber, v. 1209
„ „ varieties, v. 1201
„ „ var. albo-maculata, v. 1203
„ „ albo-picta, v. 1203
„ „ albo-spica, v. 1203
„ „ albo-variegata, v. **1203**
„ „ Allumi, v. **1202**
„ „ argentea, v. **1203**
„ „ argenteo-variegata, v. 1203
„ „ aurea, v. **1203**
„ „ Bowleri, v. 1203
„ „ californica, v. 1203
„ „ erecta filiformis, v. **1202**
„ „ „ viridis, v. **1201**, 1206 note 4
„ „ ericoides, v. **1202**
„ „ filifera, v. **1203**
„ „ forsteckensis, iii. 594 note 3
„ „ *fragrans*, v. 1201 note 4
„ „ *Fraseri*, v. 1202
„ „ *glauca*, v. 1203
„ „ gracilis, v. **1202**
„ „ „ aurea, v. **1202**
„ „ „ pendula, v. 1202
„ „ intertexta, v. **1203**
„ „ juniperina, v. **1203**
„ „ lutea, v. **1204**
„ „ nana, v. **1203**
„ „ „ alba, v. **1203**
„ „ „ glauca, v. **1203**
„ „ ochroleuca, v. 1204
„ „ patula, v. **1203**
„ „ pendula alba, v. **1202**
„ „ pygmæa, v. 1203 note 2
„ „ Smithii, v. **1202**
„ „ *stricta*, v. 1201
„ „ Wisseli, v. **1202**
„ „ Youngi, v. **1203**
„ *Lindleyana*, Hort., v. 1183
„ *Lindleyi*, Klotzsch, v. 1176, 1179, 1183 note 1
„ *lugubris*, Salisbury, v. 1151
„ lusitanica, *Miller*, v. **1176**, 1148, 1160 note 2, 1184
„ „ distribution, v. 1178
„ „ Hemsted Park, tree at, v. 1182, Pl. 300
„ „ history, v. 1178
„ „ introduction, v. 1181

Cupressus lusitanica, *Miller—continued*
" " Oriel Temple, tree at, v. 1182, Pl. 301
" " remarkable trees, v. 1182
" " varieties, v. 1177
" " var. Benthami, v. **1177**, 1147, 1150 note 4, 1178 and note 2, 1181, 1183
" " " Fota, tree at, v. 1183, Pl. 302
" " glauca, v. **1178**, 1184 note 1
" " Skinneri, v. **1177**
" Macnabiana, *Murray*, v. **1174**, 1148, 1176 note 1, 1183
" macrocarpa, *Hartweg*, v. 1165; iii. 708; v. 1105 note 1, 1148, 1160 note 2
" " Beauport, tree at, v. 1169, Pl. 296
" " California, trees in, v. 1167, Pl. 295
" " cultivation, v. 1167
" " distribution, v. 1167
" " Osborne, tree at, v. 1170, Pl. 298
" " remarkable trees, v. 1169
" " Tykillen, tree at, v. 1171, Pl. 297
" " varieties, v. 1166
" " var. Crippsii, v. **1166**
" " farallonensis, v. **1166**
" " fastigiata, v. **1166**
" " guadalupensis, v. **1166**
" " Lambertiana, v. **1166**, 1170
" " lutea, v. **1166**
" " variegata, v. **1166**
" *majestica*, Knight and Perry, v. 1158, 1159 note 1
" *mexicana*, Koch, v. 1176
" *nivalis*, Lindley, v. 1174, 1175 note 4
" nootkatensis, *Don*, v. **1194**, 1149 and note
" " cultivation, v. 1196
" " distribution, v. 1195
" " history, v. 1196
" " Mount Rainier, tree on, v. 1196, Pl. 306
" " Nisqually Valley, Washington, trees in, v. 1196, Pl. 307
" " remarkable trees, v. 1198
" " Snohomish County, Washington, trees in, v. 1196, Pl. 307
" " timber, v. 1199, 1209, 1210
" " timber lands, leases of, in British Columbia, v. 1200
" " Tortworth, tree at, v. 1198, Pl. 308
" " varieties, v. 1195

Cupressus nootkatensis, *Don—continued*
" " var. argenteo-variegata, v. **1195**
" " aureo-variegata, v. **1195**
" " compacta, v. **1195**
" " glauca, v. **1195**
" " gracilis, v. **1195**
" " lutea, v. **1195**
" " nidifera, v. **1195**
" " pendula, v. **1195**
" *nutkaënsis*, Hooker, v. 1194
" *nutkanus*, Torrey, v. 1200
" obtusa, Koch, v. **1185**; i. 134; v. 1149, 1193, 1194
" " cultivation, v. 1188
" " distribution, v. 1188
" " Imaichi, tree at, v. 1188, Pl. 303
" " in Japan, grown for timber, v. 1188, Pl. 304
" " timber, i. 136; ii. 247; v. 1189
" " varieties, v. 1185
" " var. albo-spica, v. **1187**
" " argentea, v. **1187**
" " aurea, v. **1187**
" " breviramea, v. **1186**
" " compacta, v. **1187**
" " Crippsii, v. **1187**
" " erecta, v. **1187**
" " *filicoides*, v. 1186
" " " *aurea*, v. 1186
" " forma formosana, v. 1188 note
" " gracilis aurea, v. **1187**
" " Keteleeri, v. **1187**
" " lycopodioides, v. **1186**
" " nana, v. **1187**
" " " aurea, v. **1187**
" " pendula, v. **1187**
" " pygmæa, v. **1187**
" " tetragona aurea, v. **1186**
" " Troubetzkoyana, v. **1187**
" *patula*, Spadoni, v. 1151
" *pendula*, Hopf, v. 1158
" " L'Héritier, v. 1176, 1179 note 2
" " Staunton, v. 1162
" " Thunberg, i. 197; v. 1162 note 4
" pisifera, *Koch*, v. **1190**, 1149
" " Bicton, tree at, v. 1193, Pl. 305
" " cultivation, v. 1193
" " distribution, v. 1193
" " varieties, v. 1190
" " var. aurea, v. **1192**
" " filifera, v. **1192**
" " plumosa, v. **1191**
" " " albo-picta, v. **1192**
" " " argentea, v. **1192**
" " " aurea, v. **1192**
" " squarrosa, v. **1190**; i. 192; v. 1191
" " " sulphurea, v. **1191**
" *pygmæa*, Sargent, v. 1172
" *pyramidalis*, Targioni-Tozzetti, v. 1152

Cupressus—*continued*
„ *Reinwardtii*, Beissner, v. 1165
„ *religiosa*, v. 1183
„ *Royleana*, Koch, v. 1152
„ *Sargentii*, Jepson, v. 1171, 1172 note 3
„ sempervirens, *Linnæus*, v. **1151**, 1148, 1150 note 4, 1160 note 2, 1179
„ „ cultivation, v. 1155
„ „ distribution, v. 1152
„ „ dwarf forms, v. 1152
„ „ Heron Court, tree at, v. 1156, Pl. 293
„ „ Montpellier, tree at, v. 1154, Plate 293A
„ „ remarkable trees, v. 1156
„ „ timber, v. 1157, 1180
„ „ variegated forms, v. 1152
„ „ varieties, v. 1151
„ „ var. *fastigiata*, v. 1152
„ „ horizontalis, v. **1152**, 1153-1155
„ „ indica, v. **1152**
„ „ *pyramidalis*, v. 1152
„ „ stricta, v. **1152**
„ „ thujæfolia, v. **1152**
„ *sinensis*, Lee, v. 1176, 1179 note 4
„ *Skinneri*, Carrière, v. 1177
„ *squarrosa*, Lawson, v. 1190
„ thurifera, *Humboldt, Bonpland, and Kunth*, v. **1150**
„ *thurifera*, Schlechtendal, v. 1177, 1181
„ thyoides, *Linnæus*, v. **1210**; i. 193; v. 1149
„ „ cultivation, v. 1212
„ „ distribution, v. 1211
„ „ North Carolina, trees in, v. 1212, Pl. 311
„ „ submerged forests, v. 1213
„ „ timber, v. 1213
„ „ varieties, v. 1211
„ „ var. *andelyensis*, v. 1211
„ „ ericoides, v. **1211**
„ „ glauca, v. **1211**
„ „ Hoveyi, v. **1211**
„ „ *kewensis*, v. 1211
„ „ leptoclada, v. **1211**
„ „ nana, v. **1211**
„ „ variegata, v. **1211**
„ torulosa, *Don*, v. **1158**, 1147, 1179 and note 4, 1183
„ „ Cuffnells, avenue at, v. 1160, Pl. 294
„ „ cultivation, v. 1159
„ „ distribution, v. 1159
„ „ remarkable trees, v. 1160
„ „ timber, v. 1161; iii. 483
„ „ var. Corneyana, v. **1159**, 1160
„ „ *kashmiriana*, v. 1161
„ „ majestica, v. 1159, 1161
„ *torulosa*, Lindley, v. 1165
„ *Tournefortii*, Audibert, v. 1151
„ „ Tenore, v. 1158
Cupressus—*continued*
„ *Uhdeana*, Carrière, v. 1177, 1181
„ *Whitleyana*, Carrière, v. 1152
Cyclobalanopsis, Oersted, v. 1215
Cyclobalanus, Oersted, v. 1215
Cyllene Robiniæ. *See* Insects
Cynips Tozæ. *See* Insects
Cypress, Chinese Weeping, v. **1162**. *See* Cupressus funebris
„ Deciduous, i. **173**. *See* Taxodium distichum
„ Gowen's, v. **1171**. *See* Cupressus Goveniana
„ Himalayan, v. **1158**. *See* Cupressus torulosa
„ Hinoki, v. **1185**. *See* Cupressus obtusa
„ Lawson, v. **1200**. *See* Cupressus Lawsoniana
„ Macnab's, v. **1174**. *See* Cupressus Macnabiana
„ Mediterranean, v. **1151**. *See* Cupressus sempervirens
„ Mexican, v. **1176**. *See* Cupressus lusitanica
„ Monterey, v. **1165**. *See* Cupressus macrocarpa
„ Sawara, v. **1190**. *See* Cupressus pisifera
„ Sitka, v. **1194**. *See* Cupressus nootkatensis
Cypripedium Calceolus. *See* Plants, Miscellaneous
Cytisine, vi. 1525
Cytisus, Linnæus, section *Laburnum*, Wettstein, vi. 1521
Cytisus Adami, Poiteau, vi. 1524
„ *alpinus*, Miller, vi. 1521
„ *Alschingeri*, Visiani, vi. 1523
„ *angustifolius*, Moench, vi. 1521
„ *Laburnum*, Linnæus, vi. 1522
„ „ var. *coccineum*, vi. 1524
„ „ *purpurascens*, vi. 1524
„ *purpureus*, Scopoli, vi. 1524
„ *Watereri*, Wettstein, vi. 1523

Dacrydium Franklini, *Hooker*, v. 1147 note 1
„ *plumosum*, D. Don, iii. 487
Dake-momi tree, iv. 767
Daphniphyllopsis, Kurz, iii. 508
Dasyscypha calycina. *See* Fungi
Date-Plum, iv. **999**. *See* Diospyros Lotus
Dates, Black, iv. 1000
Deal apple, iii. 577 note 8
„ tree, iii. 557 and note 8
Deal, White, vi. 1357
„ Yellow, v. 1033 note
Deodar, iii. **476**. *See also* Cedrus Deodara
„ Bicton, tree at, iii. 482, Pl. 140
„ cause of deaths of, iii. 479, 480
„ cultivation, iii. 479
„ distribution, iii. 477
„ hardiness of, iii. 481
„ Himalaya, group in the, iii. 478, Pl. 139
„ in England, iii. 481, 482
„ in Ireland, iii. 481, 483
„ in Scotland, iii. 481, 482

Deodar—*continued*
„ New, Dean, and Delamere forests, trees in, iii. 479
„ remarkable trees, iii. 482
„ timber, iii. 483
„ trees associated with, iii. 477
„ varieties, iii. 477
Dialium sp.?, Hanbury, ii. 427
Diaporthe parasitica. *See* Fungi
Didymosphæria populina. *See* Fungi
DIOSPYROS, Linnæus, iv. **995**
Diospyros *caroliniana*, Rafinesque, iv. 996
„ *concolor*, Moench, iv. 996
„ *guajacana*, Romans, iv. 996
„ *japonica*, Siebold and Zuccarini, iv. 999
„ Kaki, *Linnæus f.*, iv. **995**, 1000
„ „ timber, vi. 1495
„ Lotus, *Linnæus*, iv. **999**, 996
„ „ branchlets and buds, iv. 999, Pl. 200, Fig. 3
„ „ leaves, iv. 999, Pl. 199, Fig. 4
„ *microcarpa*, Siebold, iv. 999
„ *Persimmon*, Wikström, iv. 996
„ *pubescens*, Pursh, iv. 996
„ virginiana, *Linnæus*, iv. **996**
„ „ branchlets and buds, iv. 997, Pl. 200, Fig. 4
„ „ cultivation, iv. 997
„ „ Kew Gardens, tree in, iv. 998, Pl. 261
„ „ leaves, iv. 996, Pl. 199, Fig. 3
„ „ timber, iv. 998
Diplosis pini-radiatæ. *See* Insects
DISELMA, J. D. Hooker, vi. **1454**
Diselma Archeri, *J. D. Hooker*, vi. **1454**
DISTEGOCARPUS, Siebold and Zuccarini, iii. 525
Distegocarpus Carpinus, Siebold and Zuccarini, iii. 528
„ *? cordata*, De Candolle, iii. 529
Dolbe tree, iii. 617
DOMBEYA, Lamarck, i. 43
Dombeya chilensis, Lamarck, i. 44, 46
Doro-noki tree, vii. 1838
DRIMOPHYLLUM, Nuttall, vi. 1531
Drimophyllum pauciflorum, Nuttall, vi. 1531
Drouin tree, v. 1264
DRYOPTELEA, Spach, vii. 1848
Duffran tree, vi. 1418
Dzelkwa tree, iv. 919

Echinopanax horridum. *See* Plants, Miscellaneous
Elm, vii. **1847**. *See also* Ulmus
„ American White, vii. **1855**. *See also* Ulmus americana
„ „ „ cultivation, vii. 1858
„ „ „ Hargham, tree at, vii. 1858, Pl. 392
„ „ „ leaves, vii. 1855, Pl. 411, Fig. 11
„ „ „ Massachusetts, tree in, vii. 1857, Pl. 391
„ „ „ so-called, of some nurseries, vii. 1879 note 2
Elm, American White—*continued*
„ „ „ timber, vii. 1859
„ „ „ varieties, vii. 1856
„ Beebe's Weeping, vii. 1857
„ Belgian, vii. **1869**. *See* Ulmus belgica
„ Chichester, vii. **1879**, 1880. *See* Ulmus vegeta
„ Cork-barked, vii. **1888**. *See* Ulmus nitens, var. suberosa
„ Cornish, vii. **1888**. *See* Ulmus nitens, var. stricta
„ Downton, vii. **1868**. *See* Ulmus Smithii
„ Dumont, vii. **1871**. *See* Ulmus belgica, var. Dumontii
„ Dutch, vii. **1883**, 1868, 1869 note 2. *See also* Ulmus major
„ „ cultivation, vii. 1885
„ „ distribution, vii. 1884
„ „ Kensington Gardens, trees in, vii. 1885, Pl. 396
„ „ leaves, vii. 1883, Pl. 412, Fig. 15
„ „ seeds rarely fertile, vii. 1885
„ „ timber, vii. 1886
„ „ varieties, vii. 1884
„ English, vii. **1903**. *See also* Ulmus campestris
„ „ as a woodland tree, vii. 1912
„ „ cultivation, vii. 1908
„ „ distribution, vii. 1907
„ „ Huntly Manor, remarkable tree at, vii. 1916, 1917
„ „ in England, vii. 1913
„ „ in Ireland, vii. 1920
„ „ in Scotland, vii. 1920
„ „ in Spain, vii. 1907
„ „ in Wales, vii. 1920
„ „ leaves, vii. 1903, Pl. 412, Fig. 14
„ „ Powderham, tree at, vii. 1915, Pl. 404
„ „ remarkable trees, vii. 1913
„ „ seedlings from Spanish seed, vii. 1908
„ „ seeds rarely fertile in England, vii. 1904
„ „ timber, vii. 1920
„ „ unknown in Italy, vii. 1907
„ „ varieties, vii. 1904
„ „ Well Vale, tree at, vii. 1918, Pl. 405
„ European White, vii. **1851**. *See also* Ulmus pedunculata
„ „ „ distribution, vii. 1853
„ „ „ hybrid, vii. 1852
„ „ „ leaves, vii. 1851, Pl. 411, Fig. 7
„ „ „ pyramidal form, vii. 1853
„ „ „ Syon, tree at, vii. 1855, Pl. 389
„ „ „ Ugbrooke, tree at, vii. 1855, Pl. 390
„ „ „ varieties, vii. 1852
„ exudation from stem of, vii. 1929 note 2
„ Flanders, vii. **1872**. *See* Ulmus Klemeri
„ Goodyer's, vii. **1901**. *See also* Ulmus minor
„ „ leaves, vii. 1901, Pl. 411, Fig. 3

Elm, Goodyer's—*continued*
„ „ timber, vii. 1902 note 3
„ „ Westonbirt, tree at, vii. 1902, Pl. 403
„ Guernsey, vii. **1891.** *See* Ulmus nitens, var. Wheatleyi
„ "Hinchingbrooke," vii. 1881
„ of Holland, vii. 1870
„ Huntingdon, vii. **1879,** 1868. *See* Ulmus vegeta
„ Italian, vii. **1892**
„ Japanese, vii. **1923**
„ Jersey, vii. **1891.** *See* Ulmus nitens, var. Wheatleyi
„ Kidbrook, vii. **1896**
„ Klemmer, vii. **1872.** *See* Ulmus Klemeri
„ Lancaster, in Massachusetts, vii. 1857, Pl. 391
„ "lock," vii. 1902 and note 3
„ Mediterranean, vii. **1892.** *See* Ulmus nitens, var. italica
„ Parasol, vii. 1884
„ Persian, vii. **1893**
„ Rock, vii. **1860.** *See* Ulmus racemosa
„ Scampston, vii. **1894**
„ Slippery, vii. **1862.** *See* Ulmus fulva
„ Smooth-leaved, vii. **1887.** *See also* Ulmus nitens
„ „ Briggins Park, trees at, vii. 1899, Pl. 401
„ „ distribution, vii. 1896
„ „ hybrid, vii. 1872
„ „ leaves, vii. 1887, Pl. 412, Fig. 23
„ „ remarkable trees, vii. 1898
„ „ Saling, tree at, vii. 1899, Pl. 402
„ „ Sharpham, tree at, vii. 1898, Pl. 399
„ „ varieties, vii. 1888
„ Southampton, vii. 1892
„ Wheatley, vii. **1891.** *See* Ulmus nitens, var. Wheatleyi
„ Winged, vii. **1924.** *See* Ulmus alata
„ Wych, vii. **1864.** *See also* Ulmus montana
„ „ Cassiobury, tree with burry trunk at, vii. 1876, Pl. 400
„ „ distribution, vii. 1874
„ „ hybrids, vii. 1865, 1868, 1872
„ „ in England, vii. 1875
„ „ in Ireland, vii. 1879
„ „ in Scotland, vii. 1878
„ „ leaves, vii. 1864, Pl. 412, Fig. 13
„ „ place-names derived from, vii. 1875
„ „ remarkable trees, vii. 1875
„ „ Studley Royal, tree at, vii. 1875, Pl. 394
„ „ timber, vii. 1922
„ „ varieties, vii. 1865
„ „ Weeping, vii. **1867.** *See* Ulmus montana, var. pendula
Elm-bark beetle, vii. 1911
Elm-leaf beetle, vii. 1854 and note 2
Elm Psylla, vii. 1855 note 2
Encina tree, v. 1284
Engraving, wood for, vii. 1730, 1739
Épine miraculeuse, vii. 1736 note 3
Eriophyes rudis, etc. *See* Insects
Eso-Matsu tree, i. 87
EUCALYPTUS, L'Heritier, vi. **1612**
„ cultivation, vi. 1618
„ key to species, vi. 1617
„ tender and hardy species, vi. 1619
Eucalyptus acervula, *Miquel*, vi. **1645,** 1618, 1639, 1640 note 3
„ „ varieties, vi. 1645 note 4
„ *acervula*, Sieber, vi. 1645 note 1
„ alpina, *Lindley*, vi. **1614**
„ amygdalina, *Labillardière*, vi. **1614**; iii. 690 note 3; vi. 1613
„ „ var. regnans, vi. 1634 notes 4 and 5
„ Apple, vi. 1615
„ Beauchampiana, *Treseder*, vi. **1615**
„ botryoides, *Smith*, vi. **1615**
„ calophylla, vi. 1613 note 1
„ *cinerea*, Mueller, vi. 1622
„ citriodora, *Hooker*, vi. **1615**
„ coccifera, *J. D. Hooker*, vi. **1635,** 1617
„ „ leaves, etc., vi. 1635, Pl. 365, Fig. 9
„ „ Powderham Castle, tree at, vi. 1636, Pl. 361
„ „ remarkable trees, vi. 1636
„ cordata, *Labillardière*, vi. **1620,** 1617
„ „ leaves, etc., vi. 1620, Pl. 365, Fig. 1
„ *cordata*, Loddiges, vi. 1622
„ „ Miquel, vi. 1623
„ *coriacea*, A. Cunningham, vi. 1631
„ *cornigera*, Earl Annesley, vi. 1649
„ dextropinea, *R. T. Baker*, vi. 1647 note 4
„ *diversifolia*, Miquel, vi. 1623
„ ficifolia, *Mueller*, vi. **1615**
„ *gigantea*, Dehnhardt, vi. 1623, 1626
„ *glauca*, De Candolle, vi. 1625 note 4
„ globulus, *Labillardière*, vi. **1623,** 1617
„ „ distribution, vi. 1625
„ „ history, vi. 1625
„ „ leaves, etc., vi. 1624, Pl. 365, Fig. 10
„ „ Penmere, tree at, vi. 1627, Pl. 360
„ „ plantations and malaria, vi. 1627
„ „ remarkable trees, vi. 1627
„ „ timber, vi. 1629
„ „ Torquay, tree at, vi. 1627, Pl. 359
„ „ varieties, vi. 1624
„ Gunnii, *J. D. Hooker*, vi. **1638,** 1617
„ „ Brightlingsea, tree at, vi. 1640, Pl. 362
„ „ leaves, etc., vi. 1639, Pl. 365, Fig. 5
„ „ remarkable trees, vi. 1640
„ „ var. *glauca*, vi. 1638
„ „ *montana*, vi. 1638

Eucalyptus—*continued*
„ hæmastoma, *Smith*, vi. **1616**
„ incrassata, *Labillardière*, vi. 1647 note 3
„ leucoxylon, *Mueller*, vi. **1616**
„ Maideni, *Mueller*, vi. 1625 note 2
„ *montana*, Hort., vi. 1650 note 3
„ *Muelleri*, Miquel, vi. 1647 note 3
„ Muelleri, *T. B. Moore*, vi. **1647**, 1618, 1630 note 2
„ „ Derreen, tree at, vi. 1648, Pl. 364
„ „ leaves, etc., vi. 1647, Pl. 365, Fig. 6
„ *Muelleri*, Naudin, vi. 1647 note 4
„ *Muelleriana*, A. W. Howitt, vi. 1647 note 4
„ Naudiniana, *Mueller*, vi. 1614 note 4
„ *nova-anglica*, Dean and Maiden, vi. 1622
„ obliqua, *L'Héritier*, vi. **1616**
„ pauciflora, *Sieber*, vi. **1631**, 1617
„ „ leaves, etc., vi. 1631, Pl. 365, Fig. 7
„ *perfoliata*, Desfontaines, vi. 1625 note 4
„ „ Noisette, vi. 1625 note 4
„ *persicifolia*, Loddiges, vi. 1645 note 3
„ *phlebophylla*, Mueller, vi. 1631
„ *polyanthemos*, Smith, vi. 1640 note 1
„ *pulverulenta*, Link, vi. 1625 note 4
„ pulverulenta, *Sims*, vi. **1622**, 1617
„ „ leaves, etc., vi. 1622, Pl. 365, Fig. 3
„ „ var. lanceolata, vi. **1622**
„ *pulvigera*, A. Cunningham, vi. 1622
„ radiata, *Sieber*, var. 4, vi. 1636 note
„ regnans, *Mueller*, vi. 1614, 1615
„ resinifera, *Smith*, vi. **1616**
„ Risdoni, *Hooker*, vi. 1636 note
„ „ var. elata, vi. 1635 note 3
„ rudis, *Endlicher*, vi. **1616**
„ salmonophloia, *Mueller*, vi. 1647 note 4
„ stellulata, *Sieber*, vi. **1616**
„ *Stuartiana*, Mueller, vi. 1615, 1645
„ „ var. *cordata*, vi. 1622
„ *submultiplinervis*, Miquel, vi. 1631
„ urnigera, *J. D. Hooker*, vi. **1649**, 1618
„ „ leaves, etc., vi. 1649, Pl. 365, Fig. 11
„ „ var. elongata, vi. **1649**, 1650
„ *urnigera*, Masters, vi. 1642
„ vernicosa, *J. D. Hooker*, vi. **1646**, 1618, 1644
„ „ leaves, etc., vi. 1646, Pl. 365, Fig. 2
„ *verrucosa*, Landsborough, vi. 1646 note 2
„ viminalis, *Labillardière*, vi. **1633**, 1617, 1645 note 3
„ „ leaves, etc., vi. 1633, Pl. 365, Fig. 8
„ *whittingehameii*, Landsborough, vi. 1642
„ whittingehamensis, *Nicholson*, vi. **1642**, 1617
Eucalyptus whittingehamensis, *Nicholson—contd.*
„ „ leaves, etc., vi. 1642, Pl. 365, Fig. 4
„ „ Whittingehame, tree at, vi. 1643, Pl. 363
Eurabbie tree, vi. 1625
Exoascus betulinus, etc. *See* Fungi
Ezo-no-take-kamba tree, iv. 977 note 3

Fagara horrida, Thunberg, vi. 1516
FAGUS, Linnæus, i. **1**; iii. **545**. *See also* Beech
„ key to species, i. 1
„ section *NOTHOFAGUS*, Bentham et Hooker, iii. 545
FAGUS (Castanea), Linnæus, iv. 837
Fagus *alpina*, Poeppig et Endlicher, iii. 545 note 2
„ *americana*, Sweet, i. 2
„ *antarctica*, Forster, i. 48; iii. 553
„ „ var. *bicrenata*, iii. 546 note 1
„ *apiculata*, Colenso, iii. 546 note 4
„ *atropunicea*, Sudworth, i. 2
„ *betuloides*, Mirbel, iii. 551
„ *Blairii*, Kirk, iii. 547 note 2
„ *Castanea*, Linnæus, iv. 839
„ „ var. *dentata*, iv. 856
„ *cliffortioides*, J. D. Hooker, iii. 547
„ *Cunninghami*, J. D. Hooker, iii. 550
„ *Dombeyi*, Mirbel, i. 48; iii. 546 note 5
„ Engleriana, *v. Seemen*, i. **5**, 2
„ ferruginea, *Aiton*, i. **2**; iii. Pl. 202, Fig. 6
„ „ var. caroliniana, i. **3**
„ *Forsteri*, Hooker, iii. 551
„ *fusca*, J. D. Hooker, iii. 549
„ *glauca*, Philippi, iii. 552
„ *grandifolia*, Ehrhart. *See* Errata, 1935
„ *Gunnii*, Hooker, iii. 546 note 3
„ *Hohenackeriana*, Palibin. *See* Errata, 1935
„ japonica, *Maximowicz*, i. **4**, 1
„ *longipetiolata*, v. Seemen, i. 5
„ *Menziesii*, J. D. Hooker, iii. 548
„ *Montagnei*, Philippi, iii. 545 note 3
„ *Moorei*, F. v. Mueller, iii. 549
„ *nitida*, Philippi, iii. 546 note 6
„ *obliqua*, Mirbel, i. 48; iii. 552
„ orientalis, *Lipski*, i. **3**, 2, 12
„ *procera*, Poeppig et Endlicher, iii. 546 note 2
„ *pumila*, Linnæus, iv. 857
„ *pumilio*, Poeppig et Endlicher, iii. 546 note 1
„ Sieboldi, *Endlicher*, i. **4**, 2
„ *silvestris*, Mich. fil. i. 2
„ sinensis, *Oliver*, i. **5**, 2
„ *Solandri*, Hooker, iii. 547 note 1
„ sylvatica, *Linnæus*, i. **6**, 1, 2
„ „ distribution, etc. *See* Beech, Common
„ „ var. ansorgei, i. 7 note 3
„ „ argenteo-variegata, i. 9
„ „ *asiatica*, i. 3, 4
„ „ *asplenifolia*, i. 9
„ „ *atropunicea*, i. 2
„ „ atropurpurea, i. **8**
„ „ „ Rohani, i. **8**
„ „ aureo-variegata, i. 9
„ „ *chinensis*, i. 5

Fagus sylvatica, *Linnæus—continued*
„ „ var. *comptoniæfolia*, i. 9
„ „ *crispa*, i. 9
„ „ cristata, i. 9
„ „ cuprea, i. 8
„ „ *Dawycki*, vii. Pl. 406
„ „ grandidentata, i. 10
„ „ heterophylla, i. 9
„ „ *incisa*, i. 9
„ „ *laciniata*, i. 9
„ „ *latifolia*, i. 9
„ „ *longipes*, i. 5
„ „ macrophylla, i. 9
„ „ *macrophylla*, i. 3
„ „ pendula, i. 10
„ „ „ borneyensis, i. 10
„ „ „ miltonensis, i. 10
„ „ „ pagnyensis, i. 10
„ „ „ remillyensis, i. 10
„ „ purpurea, i. 7
„ „ „ pendula, i. 8, 10
„ „ „ roseo-marginata, i. 8
„ „ quercoides, i. 9
„ „ Rohanii. *See* Errata, 1935
„ „ rotundifolia, i. 10
„ „ *salicifolia*, i. 9
„ „ *Sieboldi*, i. 4
„ „ striata, i. 9
„ „ tortuosa, i. 10
„ „ tricolor, i. 9
„ „ variegata, i. 9
„ „ Zlatia, i. 9
Falso-sughero tree, v. 1264
Fei tree and fei-shih, vi. 1464
Fei-tsao, ii. 428
Fêng tree, iii. 507
Fêng-hsiang, resin, iii. 507 note 2
Fir, Algerian, iv. 737. *See* Abies numidica
„ Balsam, iv. 803, 802. *See* Abies balsamea
„ Bristle-cone, iv. 796. *See* Abies bracteata
„ Californian, iv. 779. *See* Abies Lowiana
„ Caucasian, iv. 746. *See* Abies Nordmanniana
„ Cilician, iv. 744. *See* Abies cilicica
„ Colorado, iv. 777. *See* Abies concolor
„ „ Douglas, iv. 814, 825, 826
„ Common Silver, iv. 720. *See* Abies pectinata
„ Cornish, vi. 1341
„ "Crimean" Silver, so-called, iv. 748
„ Douglas, iv. 814. *See* Pseudotsuga Douglasii
„ Giant, iv. 773. *See* Abies grandis
„ Greek, iv. 739. *See* Abies cephalonica
„ Himalayan, iv. 750. *See* Abies Webbiana
„ Japanese, iv. 762. *See* Abies firma
„ Lovely, iv. 782. *See* Abies amabilis
„ Maries', iv. 771. *See* Abies Mariesii
„ Mexican, iv. 808. *See* Abies religiosa
„ Nikko, iv. 765. *See* Abies brachyphylla
„ Noble, iv. 786. *See* Abies nobilis
„ Oregon Douglas, iv. 825, 826
„ Pindrow, iv. 755. *See* Abies Pindrow
„ Red, iv. 792, 819. *See* Abies magnifica and Pseudotsuga Douglasii
„ Rocky Mountain, iv. 800. *See* Abies lasiocarpa
Fir—*continued*
„ Saghalien, iv. 760. *See* Abies sachalinensis
„ Scots. *See* Pine, Scots
„ Shasta, iv. 792. *See* Abies magnifica
„ Siberian, iv. 758. *See* Abies sibirica
„ Silver, Common, iv. 720. *See* Abies pectinata
„ Southern Balsam, iv. 806. *See* Abies Fraseri
„ Spanish, iv. 732. *See* Abies Pinsapo
„ Spruce, i. 75. *See* Picea
„ Veitch's, iv. 768. *See* Abies Veitchii
„ Yellow, iv. 819
Firs, Silver, iv. 713. *See* Abies
Fitzroya, J. D. Hooker, vi. 1454
Fitzroya patagonica, *J. D. Hooker*, vi. 1454; iii. 485 note 3, 486
„ „ timber, vi. 1457
Fokienia Hodginsii, *A. Henry and H. H. Thomas*. *See* Errata, 1942
Franc-picard tree, vii. 1783
Fraxinus, Linnæus, iv. 859. *See also* Ash
„ key to species, iv. 860
„ „ sub-genera, iv. 859
„ section Fraxinaster, De Candolle, iv. 860
„ „ Leptalix, Rafinesque, iv. 860
„ „ Ornaster, Koehne and Lingelsheim, iv. 860
„ „ Ornus, Persoon, iv. 859
„ „ Sciadanthus, Cosson et Durieu, iv. 860
Fraxinus *acuminata*, Lamarck, iv. 901
„ *alba*, Marshall, iv. 901
„ *albicans*, Buckley, iv. 905
„ americana, *Linnæus*, iv. 901, 859 note 1, 861, 906 and note, 907 and note 2, 908, 911
„ „ distribution, etc. *See* Ash, White
„ „ var. acuminata, iv. 902
„ „ *albicans*, iv. 905
„ „ albo-marginata, iv. 902
„ „ *aucubæfolia*, iv. 909 note 3
„ „ juglandifolia, iv. 902
„ „ microcarpa, iv. 902 and note 1
„ „ *texensis*, iv. 905
„ angustifolia, *Vahl*, iv. 879, 861, 869 note 2, 882
„ „ distribution, etc. *See* Ash, Narrow-leaved
„ „ var. lentiscifolia, iv. 880, 881
„ „ monophylla, iv. 880, 860
„ „ „ leaves, etc., iv. 880, Pl. 262, Fig. 3
„ „ *numidica*, iv. 881 note 1
„ anomala, *Watson*, iv. 900, 860
„ „ leaves, etc., iv. 900, Pl. 262, Fig. 7
„ *argentea*, Loiseleur, iv. 888 note 3
„ *aucubæfolia*, Kirchner, iv. 909
„ *australis*, Gay, iv. 879
„ Berlandieriana, *De Candolle*, iv. 862, 859 note 1, 907 note 1

Fraxinus Berlandieriana, *De Candolle—continued*
" " leaves, iv. 907 note 1, Pl. 263, Fig. 14
" Biltmoreana, *Beadle*, iv. **906**, 863, 909. *See also* Ash, Biltmore
" *Boscii*, Hort., iv. 909
" Bungeana, *De Candolle*, iv. **891**, 863, 893 note 1, 895
" " leaves, iv. 891, Pl. 266, Fig. 31
" " var. *pubinervis*, iv. 896
" *Bungeana*, Maximowicz, iv. 892, 895
" caroliniana, *Miller*, iv. **912**, 859 notes 1 and 2, 862, 863
" " leaves, etc., iv. 912, Pl. 263, Fig. 12
" *catawbiensis*, Ashe, iv. 906
" chinensis, *Roxburgh*, iv. **895**, 862, 884 note 1, 893
" " varieties, iv. 895
" " var. *rhynchophylla*, iv. 892
" *cilicica*, Lingelsheim, iv. 889 note 1
" *coriacea*, Watson, iv. 907 note 1
" *coriaræfolia*, Scheele, iv. 865
" *cubensis*, Grisebach, iv. 912
" dimorpha, *Cosson et Durieu*, iv. **884**, 863
" " leaves, etc., iv. 884, Pl. 262, Fig. 1
" Eedenii, *Boerl et Koord*, iv. 859 note 2
" Elonza, *Dippel*, iv. **883**, 861, 862 note 3
" " leaves, etc., iv. 883, Pl. 266, Fig. 27
" *epiptera*, Michaux, iv. 901
" excelsior, *Linnæus*, iv. **864**, 861, 881
" " distribution, etc. *See* Ash, Common
" " var. albo-marginata, iv. **868**
" " albo-variegata, iv. **868**
" " angustifolia, iv. **867**
" " " leaves, etc., iv. 867, Pl. 262, Fig. 5
" " asplenifolia, iv. **867**
" " *atrovirens*, iv. 867
" " aurea, iv. **867**
" " australis, iv. 865
" " crispa, iv. **867**
" " *cucullata*, iv. 867
" " *diversifolia*, iv. 866
" " *elegantissima*, iv. 867 note 5
" " erosa, iv. **867**
" " fungosa, iv. **867**
" " *globosa*, iv. 867
" " monophylla, iv. **866**, 860, 880
" " " leaves, etc., iv. 866, Pl. 262, Fig. 2
" " monophylla laciniata, iv. 866
" " monstrosa, iv. **867**
" " nana, iv. **867**
" " pendula, iv. **868**. *See also* Ash, Weeping
" " *polemoniifolia*, iv. 867

Fraxinus excelsior, *Linnæus—continued*
" " var. rotundifolia, iv. **866**, 861, 888
" " " leaves, etc., iv. 867, Pl. 266, Fig. 32
" " verrucosa, iv. **868**
" " verticillata, iv. **867**
" *expansa*, Hort., iv. 865
" *floribunda*, Bunge, iv. 891 note 1
" floribunda, *Wallich*, iv. **890**, 862
" " leaves, etc., iv. 890, Pl. 264, Fig. 17
" *florifera*, Scopoli, iv. 887
" *glabra*, Hort., iv. 909
" *heterophylla*, Vahl, iv. 866
" holotricha, *Koehne*, iv. **887**, 864
" Hookeri, *Wenzig*, iv. 869 note 3
" *juglandifolia*, Lamarck, iv. 901
" " Willdenow, iv. 907
" lanceolata, *Borkhausen*, iv. **907**, 862 and note 1, 903 and note 5, 906 note, 909
" " leaves, etc., iv. 907, Pl. 264, Fig. 16
" *lentiscifolia*, Desfontaines, iv. 880
" longicuspis, *Siebold and Zuccarini*, iv. **897**, 862, 895
" " Japanese names, iv. 898 note
" mandshurica, *Ruprecht*, iv. **893**, 861, 899
" " Japanese name, iv. 894
" " leaves, etc., iv. 893, Pl. 266, Fig. 28
" Mariesii, *J. D. Hooker*, iv. **892**, 863
" " leaves, etc., iv. 892, Pl. 264, Fig. 18
" *monophylla*, Desfontaines, iv. 866
" nigra, *Marshall*, iv. **898**, 861, 894
" " leaves, etc., iv. 898, Pl. 264, Fig. 19
" *numidica*, Dippel, iv. 881 note 1
" obliqua, *Tausch*. *See* Errata, 1941
" obovata, *Blume*, iv. **895**, 862
" oregona, *Nuttall*, iv. **910**, 863, 903
" " leaves, etc., iv. 910, Pl. 263, Fig. 15
" " var. *glabra*, iv. 911
" Ornus, *Linnæus*, iv. **887**, 862
" " distribution, etc. *See* Ash, Flowering
" " var. argentea, iv. **888**
" " diversifolia, iv. **889**
" " lanceolata, iv. 888 note 1
" " *rotundifolia*, iv. 888 and note 1
" oxycarpa, *Willdenow*, iv. **882**, 861, 880, 884
" " leaves, etc., iv. 882, Pl. 263, Fig. 11
" " var. parvifolia, iv. **882**
" " " leaves, etc., iv. 882, Pl. 263, Fig. 9
" *oxyphylla*, M. Bieberstein, iv. 880 note 7, 882
" " var. *oligophylla*, iv. 883
" *paniculata*, Miller, iv. 887

Fraxinus—*continued*
„ *parvifolia*, Lamarck, iv. 880, 882
„ „ Lingelsheim, iv. 891
„ „ Willdenow, iv. 884
„ pennsylvanica, *Marshall*, iv. **908**, 863, 903 note 5, 906 and note, 907, 910. *See also* Ash, Red
„ „ var. aucubæfolia, iv. **909**
„ „ *lanceolata*, iv. 907
„ philippinensis, *Merrill*, iv. 859 note 2
„ *pistaciæfolia*, Torrey, iv. 912
„ *platycarpa*, Michaux, iv. 912
„ *platypoda*, Oliver, iv. 897 note
„ potamophila, *Herder*, iv. **885**, 860
„ „ leaves, etc., iv. 885, Pl. 262, Fig. 8
„ profunda, *Bush*, iv. 909
„ *pubescens*, Lamarck, iv. 908
„ pubinervis, *Blume*, iv. **896**, 863
„ quadrangulata, *Michaux*, iv. **900**, 862
„ „ leaves, etc., iv. 900, Pl. 265, Fig. 22
„ raibocarpa, *Regel*, iv. **886**, 863
„ „ leaves, etc., iv. 886, Pl. 266, Fig. 29
„ Regelii, *Dippel*, iv. 886
„ rhynchophylla, *Hance*, iv. **892**, 862, 891 note 1, 893 note 1
„ „ leaves, etc., iv. 892, Pl. 265, Fig. 23
„ *Richardi*, Hort., iv. 909
„ *rostrata*, Gussone, iv. 882
„ *rotundifolia*, Aiton, iv. 867, 884, 888
„ „ Lamarck, iv. 888
„ „ Tenore, iv. 889 note 1
„ „ Willdenow, iv. 888, 889 note 1
„ *sambucifolia*, Lamarck, iv. 898
„ *serratifolia*, Hort., iv. 897
„ *Sieboldiana*, Blume, iv. 897
„ „ Dippel, iv. 897
„ *simplicifolia*, Willdenow, iv. 866
„ sogdiana, *Bunge*, iv. 883 note, 886 note 1
„ Spaethiana, *Lingelsheim*, iv. **897**, 862, 898 note
„ syriaca, *Boissier*, iv. **883**, 860
„ „ leaves, etc., iv. 883, Pl. 263, Fig. 10
„ *tamariscifolia*, Vahl, iv. 880
„ texensis, *Sargent*, iv. **905**, 862, 902
„ Tiflis, species from, iv. 886, Pl. 265, Fig. 25
„ *triptera*, Nuttall, iv. 912
„ *Veltheimi*, Dieck, iv. 880
„ velutina, *Torrey*, iv. **912**, 863
„ „ leaves, etc., iv. 912, Pl. 264, Fig. 20
„ *viridis*, Michaux, iv. 902, 907
„ Willdenowiana, *Koehne*, iv. **884**, 861
„ „ leaves, etc., iv. 884, Pl. 265, Fig. 24
„ xanthoxyloides, *Wallich*, iv. **885**, 863, 913
„ „ var. *dimorpha*, iv. 884
French Hales, i. 157 note 1
Fuji-ki tree, i. 36
Fumago. *See* Fungi
Fungi—
Æcidium cedri, iii. 481
„ elatinum, iv. 725, 784 note
„ Thomsoni, vi. 1367
Armillaria mellea (Agaricus melleus), iii. 480; v. 1016, 1029, 1035, 1207
Botrytis Douglasii, iv. 826
Coleosporium Pini, v. 1108 note 3
Cucurbitaria piceæ, vi. 1391 note 5
Dasyscypha calycina, ii. 361
Diaporthe parasitica, iv. 858 note 6
Didymosphæria populina, vii. 1819
Exoascus betulinus, iv. 963
„ Carpini, iii. 538
Fumago, vii. 1666
Glœosporium nervisequium, iii. 618
Gnomonia Veneta, iii. 618
Gymnosporangium Cunninghamianum, v. 1159
Lophodermium Pinastri, v. 1076
Melanconis stilbostoma, iv. 963
Peridermium incarcerans, vi. 1367
„ pini, v. 1024 and note 3
„ Strobi, v. 1016, 1024 note 3, 1029, 1030
Peronospora sp., v. 1123 note 3
Pestalozzia funerea, i. 186; v. 1189, 1198 note, 1207
Peziza Willkommii, ii. 353, 361, 386, 400, 419
Physalospora gregaria, vii. 1765
Polyporus, v. 1257; vi. 1441
„ squamosus, vii. 1871
Rhytisma acerinum, iii. 641
Trametes radiciperda, iii. 481
Valsonectria parasitica, iv. 858 note 6

Galerucella luteola, etc. *See* Insects
Galls on oak, ii. 333 note 2
Gean tree, vi. **1535**. *See* Prunus Avium
Gigantabies, Nelson, iii. 687
Gindai-boku, semi-fossil wood, i. 107
Ginkgo, Linnæus, i. **55**
Ginkgo biloba, *Linnæus*, i. **56**
„ „ burrs, i. 57
„ „ Chinese names, i. 59
„ „ cultivation, i. 60
„ „ distribution and history, i. 58
„ „ fossil, in Isle of Mull, i. 55
„ „ Frogmore, tree at, i. 61, Pl. 22
„ „ identification, i. 58
„ „ in China, i. 58, Pl. 23
„ „ introduction, i. 60
„ „ Japanese name, i. 60
„ „ Kew, tree at, i. 60, Pl. 21
„ „ remarkable trees, i. 60
„ „ seedling, i. 57, Pl. 15, Figs. C, D
„ „ var. fastigiata, i. **58**
„ „ macrophylla laciniata, i. **58**
„ „ pendula, i. **58**
„ „ triloba, i. **58**
„ „ variegata, i. **58**
Gleditschia, Clayton, vi. **1510**
„ key to species, vi. 1511

Gleditschia—*continued*
„ aquatica, *Marshall*, vi. **1520**, 1511
„ *australis*, Hemsley, vi. 1513 note
„ *brachycarpa*, Pursh, vi. 1517
„ *brachyloba*, Nuttall, vi. 1518
„ *Bujoti*, Neumann, vi. 1518
„ *carolinensis*, Lamarck, vi. 1520
„ caspica, *Desfontaines*, vi. **1512**, 1511
„ Delavayi, *Franchet*, vi. **1513**, 1511
„ *elegans*, Salisbury, vi. 1517
„ ferox, *Desfontaines*, vi. **1511**, 1512 note 1
„ „ var. *nana*, vi. 1518
„ *Fontanesii*, Spach, vi. 1514
„ *heterophylla*, Rafinesque, vi. 1517
„ *horrida*, Makino, vi. 1516
„ „ var. *caspica*, vi. 1512
„ *horrida*, Willdenow, vi. 1513, 1516 note 1
„ *inermis*, Miller, vi. 1520
„ japonica, *Miquel*, vi. **1516**, 1511
„ macracantha, *Desfontaines*, vi. **1514**, 1511
„ *meliloba*, Walter, vi. 1517
„ *monosperma*, Walter, vi. 1520
„ *officinalis*, Hemsley, vi. 1514
„ *sinensis*, Bentham, vi. 1513 note
„ sinensis, *Lamarck*, vi. **1513**, 1511
„ „ var. *nana*, vi. 1518
„ *spinosa*, Marshall, vi. 1517
„ texana, *Sargent*, vi. 1518
„ triacanthos, *Linnæus*, vi. **1517**, 1511
„ „ distribution and cultivation, vi. 1518
„ „ hybrid, vi. 1518
„ „ timber, vi. 1519
„ „ var. Bujoti, vi. **1518**
„ „ inermis, vi. **1517**
„ „ nana, vi. **1518**
„ *xylocarpa*, Hance, vi. 1513
Gleditsia, Linnæus, vi. 1510
Glœosporium nervisequium. *See* Fungi
Glyptostrobus, Endlicher, i. 171
Glyptostrobus heterophyllus, *Endlicher*, i. 172, 175
„ *pendulus*, Endlicher, i. 173
Gnomonia Veneta. *See* Fungi
"Goboku," or Five Trees, ii. 204
Goodyera repens. *See* Plants, Miscellaneous
Goyo-matsu tree, v. 1034
Graft Hybrids. *See* Laburnum Adami *and* Cratægo-Mespilus
Gran tree, vi. 1348
Grisard tree, vii. 1783, 1785
Guerigo tree, vii. 1778
Guilandina, Linnæus, ii. 427
Guilandina dioica, Linnæus, ii. 428
Gum, Australian Heart-leaved, vi. **1622**. *See* Eucalyptus pulverulenta
„ Black, iii. **509**. *See* Nyssa sylvatica
„ Blue, vi. **1623**. *See* Eucalyptus globulus
„ Cabbage, vi. **1631**.
„ Cider, vi. **1638**. *See* Eucalyptus Gunnii
„ Cotton, iii. **512**. *See* Nyssa aquatica
„ Drooping, vi. 1636 note
Gum—*continued*
„ Dwarf, vi. **1646**. *See* Eucalyptus vernicosa
„ Manna, vi. **1633**. *See* Eucalyptus viminalis
„ Mueller's Red, vi. **1647**. *See* Eucalyptus Muelleri
„ Red (Eucalyptus acervula), vi. 1639
„ „ (Liquidambar), timber, iii. 503
„ Swamp, vi. **1645**, 1639. *See* Eucalyptus acervula
„ Sweet, iii. **500**. *See* Liquidambar styraciflua
„ Tasmanian Heart-leaved, vi. **1620**. *See* Eucalyptus cordata
„ Tupelo, iii. **512**. *See* Nyssa aquatica
„ Urn-bearing, vi. **1649**. *See* Eucalyptus urnigera
„ Weeping, vi. **1631**. *See* Eucalyptus pauciflora
„ White, vi. 1631, 1633
„ Whittingehame, vi. **1642**. *See* Eucalyptus whittingehamensis
Gunstocks, Maple, ii. 260
„ Walnut, ii. 260
Gymnocladus, Lamarck, ii. **427**
Gymnocladus canadensis, *Lamarck*, ii. **428**
„ „ Claremont, tree at, ii. 431, Pl. 120
„ „ cultivation, ii. 430
„ „ distribution, ii. 429
„ „ identification, ii. 429
„ „ leaves, ii. 428, Pl. 125, Fig 4
„ „ remarkable trees, ii. 431
„ chinensis, *Baillon*, ii. **427**
„ *dioicus*, Koch, ii. 428
„ *Williamsii*, Hance, vi. 1513
Gymnosporangium Cunninghamianium. *See* Fungi

Habhel tree, vi. 1418
Hackberry, iv. **930**, **932**. *See* Celtis occidentalis *and* C. crassifolia
Hagberry, vi. 1545
Hai-matzu tree, v. 1046
Halesia, Ellis, vi. **1600**
Halesia carolina, *Linnæus*, vi. **1602**
„ „ distribution, vi. 1603
„ „ var. glabrescens, vi. **1603**
„ „ Meehani, vi. **1603**
„ „ mollis, vi. **1603**
„ diptera, *Ellis*, vi. **1601**
„ *Meehani*, Meehan, vi. 1603
„ parviflora, *Michaux*, vi. 1600 and note 3
„ *reticulata*, Buckley, vi. 1601
„ stenocarpa, *Koch*, vi. **1602**
„ *tetraptera*, Ellis, vi. 1602
„ „ var. *dialypetala*, vi. 1603 note 1
Hari-giri tree, vii. 1695
Hawthorn, vii. **1733**, **1739**. *See* Cratægus monogyna *and* C. oxyacantha
„ "Paul's New Double Scarlet," vii. **1741**
Hazel, Constantinople, iii. **520**. *See* Corylus Colurna
„ pine, iii. 504
„ Turkish, iii. **520**. *See* Corylus Colurna
„ Wych, vii. 1874, 1876

Heaven, Tree of, i. 33
Hegg tree, vi. 1545
Hei-tsao, iv. 1000
Hemiptelea Davidii, *Planchon*, iv. 914 note 2
Hemlock, ii. 239. *See* Tsuga canadensis
„ bark used for tanning, ii. 243 note
„ Carolina, ii. 243. *See* Tsuga Caroliniana
„ Himalayan, ii. 244. *See* Tsuga Brunoniana
„ Hooker's, ii. 229. *See* Tsuga Pattoniana
„ Japanese, ii. 247. *See* Tsuga diversifolia
„ Siebold's, ii. 246. *See* Tsuga Sieboldii
„ Western, ii. 234. *See* Tsuga Albertiana
„ „ growing on fallen log of Giant Thuya in America, i. Pl. 59; ii. 236
Henekkeri tree, v. 1046
Heptane, v. 1070
Hesperopeuce, Lemmon, ii. 227
Hesperopeuce Pattoniana, Lemmon, ii. 229
Heyderia, Koch, iii. 484
Heyderia decurrens, Koch, iii. 489
Hiba tree, ii. 203
Hickoria, Rafinesque, iii. 597
Hickoria alba, Britton, iii. 606
„ *borealis*, Ashe, iii. 602
„ *glabra*, Britton, iii. 604
„ *laciniosa*, Sargent, iii. 605
„ *microcarpa*, Britton, iii. 605
„ *minima*, Britton, iii. 600
„ *ovata*, Britton, iii. 601
„ *Pecan*, Britton, iii. 599
Hickory, cultivation, iii. 607
„ timber, iii. 609
„ various species. *See* Carya
Hicorius, Rafinesque, iii. 597
Hicorius albus, Sargent, iii. 606
„ *glaber*, Sargent, iii. 604
Himeko-matsu tree, v. 1034
Himuro tree, v. 1191
Hinoki tree, v. 1188
Hiyoku-hiba tree, v. 1192
Holly, Common, vii. 1704. *See* Ilex Aquifolium
„ Gold-blotched Hedgehog, vii. 1707
„ "Gold Milkmaid," vii. 1712
„ "Golden Queen," vii. 1709
„ Handsworth New Silver, vii. 1712
„ Hedgehog, vii. 1706
„ Leather-leaf, vii. 1708
„ "Milkmaid," vii. 1707
„ Moonlight, vii. 1712
„ Saw-leaved, vii. 1708
„ Screw-leaved, vii. 1711
„ "Silver Milkmaid," vii. 1707
„ "Silver Queen," vii. 1712
„ Silver-striped Hedgehog, vii. 1707
„ Waterer's Golden, vii. 1710
„ Weeping, Perry's, vii. 1706
„ „ Waterer's, vii. 1706
„ yellow-berried, vii. 1706 and note 2
Honey dew on lime trees, vii. 1666
Honoki tree, vi. 1593
Hornbeam, American, iii. 531. *See* Carpinus caroliniana
Hornbeam—*continued*
„ American Hop, iii. 5 3. *See* Ostrya virginica
„ Common, iii. 532. *See also* Carpinus Betulus
„ „ Cobham Park, trees at, iii. 536
„ „ Cornbury Park, tree at, iii. 536, Pl. 148
„ „ cultivation, iii. 535
„ „ distribution, iii. 533
„ „ Gordon Castle, tree at, iii. 538, Pl. 152
„ „ leaves, iii. 526, 532, Pl. 201, Fig. 4
„ „ in England, iii. 536
„ „ in Ireland, iii. 538
„ „ in Scotland, iii. 538
„ „ remarkable trees, iii. 536
„ „ soil and climate, iii. 535
„ „ timber, iii. 538
„ „ varieties, iii. 533
„ „ Weald Park, trees at, iii. 537, Pl. 151
„ Hop, iii. 540. *See* Ostrya carpinifolia
„ Japanese Hop, iii. 544. *See* Ostrya japonica
„ Pollard, at Bayfordbury, iii. 537, Pl. 149
„ „ at Easton Lodge, iii. 537, Pl. 150
Horse-Chestnut, Common, ii. 210. *See also* Æsculus Hippocastanum
„ „ „ abnormal flowering, ii. 211
„ „ „ branchlets and buds, ii. 210, Pl. 62, Fig. 1
„ „ „ Colesborne, tree at, ii. 215, Pl. 63
„ „ „ cultivation, ii. 213
„ „ „ distribution and history, ii. 212
„ „ „ identification, ii. 211
„ „ „ in England, ii. 215
„ „ „ in Ireland, ii. 216
„ „ „ in Scotland, ii. 216
„ „ „ leaves, etc., ii. 209, 210, Pl. 61, Fig. 1
„ „ „ remarkable trees, ii. 214
„ „ „ seedling, ii. 210
„ „ „ timber, ii. 217
„ „ „ varieties, ii. 211
„ „ „ weeping, at Dunkeld, ii. 216, Pl. 64
„ „ Indian, ii. 219. *See* Æsculus indica
„ „ Japanese, ii. 221. *See* Æsculus turbinata
„ „ Red, ii. 217. *See* Æsculus carnea
Hou-p'o tree, vi. 1592
Hsiang-ch'un tree, ii. 434
Huai tree, i. 40
Huang ch'iu tree, iii. 515
Huang-yang tree, vii. 1723
Huan-huan tree, vii. 1701

Hybernia aurantiaria, etc. *See* Insects
Hybrid trees, raising, vii. 1852 note 2
Hylesinidæ. *See* Insects
Hylesinus Fraxini. *See* Insects

Ichii tree, i. 107
Ilex, Linnæus, vii. 1702
Ilex altaclerensis, *Dallimore*, vii. 1713
„ Aquifolium, *Linnæus*, vii. 1704
„ „ cultivation, vii. 1715
„ „ distribution, vii. 1715
„ „ Gordon Castle, group of hollies at, vii. 1719, Pl. 377
„ „ hybrids, vii. 1703 note 4, 1712
„ „ in England, vii. 1717
„ „ in Ireland, vii. 1720
„ „ in Scotland, vii. 1718
„ „ remarkable trees, vii. 1716
„ „ timber, etc., vii. 1720
„ „ varieties, vii. 1705
„ „ var. albo-marginata, vii. 1712
„ „ albo-picta, vii. 1707
„ „ alcicornis, vii. 1710
„ „ *altaclerensis*, vii. 1713
„ „ *angustifolia* (Hohenacker), vii. 1708 note 3
„ „ angustifolia (Loudon), vii. 1708
„ „ „ albo-marginata, vii. 1709
„ „ „ aureo-maculata, vii. 1709
„ „ argentea marginata pendula, vii. 1706, 1712
„ „ *argentea medio-picta*, vii. 1707
„ „ argentea regina, vii. 1712
„ „ *atrovirens*, vii. 1714
„ „ *aurea medio-picta*, vii. 1712
„ „ aurea pendula, vii. 1706
„ „ „ regina, vii. 1709, 1712
„ „ aureo-marginata, vii. 1712
„ „ „ „ angustifolia, vii. 1712
„ „ „ „ bromeliæfolia, vii. 1712
„ „ aureo-picta, vii. 1712
„ „ *balearica*, vii. 1703
„ „ Beetii, vii. 1707
„ „ *belgica*, vii. 1714
„ „ *calamistrata*, vii. 1711
„ „ *camelliæfolia*, vii. 1714
„ „ caspia, vii. 1705 note 6, 1708 note 3
„ „ chinensis, vii. 1705 note 6
„ „ *chrysocarpa*, vii. 1706
„ „ ciliata, vii. 1709
„ „ *contorta*, vii. 1711
„ „ crassifolia, vii. 1708
„ „ crispa, vii. 1711, 1707
„ „ „ aureo-picta, vii. 1711
„ „ donningtonensis, vii. 1710
„ „ echinata, vii. 1706
„ „ fastigiata, vii. 1706
„ „ *ferox*, vii. 1706

Ilex Aquifolium, *Linnæus—continued*
„ „ var. ferox argentea, vii. 1707
„ „ „ aurea, vii. 1707
„ „ Fisheri, vii. 1709
„ „ *flavescens*, vii. 1712
„ „ Foxii, vii. 1709
„ „ fructu luteo, vii. 1706
„ „ handsworthensis, vii. 1709
„ „ „ argenteo-variegata, vii. 1712
„ „ hastata, vii. 1707
„ „ *Hendersoni*, vii. 1714
„ „ heterophylla, vii. 1710
„ „ „ aureo-marginata, vii. 1710
„ „ „ aureo-picta, vii. 1710
„ „ *Hodginsii*, vii. 1713
„ „ Ingrami, vii. 1708
„ „ integrifolia, vii. 1710
„ „ *kewensis*, vii. 1707
„ „ *latifolia*, vii. 1712, 1713
„ „ latispina, vii. 1707
„ „ laurifolia, vii. 1711
„ „ „ aurea, vii. 1711
„ „ „ aureo-picta, vii. 1711
„ „ „ sulphurea, vii. 1711
„ „ *Lawsoniana*, vii. 1713
„ „ leucocarpa, vii. 1706 note 4
„ „ Lichtenthalii, vii. 1710
„ „ lineata, vii. 1708
„ „ lutescens, vii. 1712
„ „ *maderensis*, vii. 1714
„ „ *maderensis atrovirens*, vii. 1714
„ „ marginata (Loudon), vii. 1711
„ „ *marginata* (Moore), vii. 1711 and note 1
„ „ Marnocki, vii. 1715
„ „ microphylla, vii. 1708
„ „ monstrosa, vii. 1707
„ „ *myrtifolia*, vii. 1708
„ „ myrtifolia aureo-maculata, vii. 1708
„ „ „ aureo-marginata, vii. 1708
„ „ „ elegans, vii. 1708
„ „ ? *nigra*, vii. 1713
„ „ *nigrescens*, vii. 1713 note 1, 1714
„ „ *nigricans*, vii. 1714
„ „ *nobilis*, vii. 1714
„ „ „ *variegata*, vii. 1714
„ „ ovata, vii. 1709
„ „ pendula, vii. 1706
„ „ *platyphylla*, vii. 1704 note 2, 1714
„ „ *platyphylloides*, vii. 1704 note 1
„ „ *princeps*, vii. 1712, 1713
„ „ recurva, vii. 1708
„ „ *revoluta*, vii. 1711
„ „ *Robinsoniana*, vii. 1710

Ilex Aquifolium, *Linnæus—continued*
„ „ var. *scotica*, vii. 1711
„ „ scotica aurea, vii. **1711**
„ „ „ aureo-picta, vii. **1711**
„ „ serratifolia, vii. **1708**
„ „ ? *Shepherdii* (Goeppert), vii. 1713
„ „ *Shepherdii* (Moore), vii. 1713 note 3
„ „ Smithiana, vii. **1710**
„ „ *tortuosa*, vii. 1711
„ „ trapeziformis, vii. **1707**
„ „ Watereriana, vii. **1710**, 1712
„ „ whittingtonensis, vii. **1709**
„ „ *xanthocarpa*, vii. 1706
„ balearica, *Desfontaines*, vii. **1703**
„ „ hybrids, vii. 1703 note 4, 1704, 1712
„ camelliæfolia, *Henry*, vii. **1714**
„ Dahoon, *Walter*, vii. 1711 and note 2
„ *echinata*, Miller, vii. 1706
„ Hendersoni, *Dallimore*, vii. **1714**, 1713 note 3
„ Hodginsii, *Dallimore*, vii. **1713**
„ „ var. "King Edward VII.," vii. 1714
„ Lawsoniana, *Dallimore*, vii. **1713**
„ *maderensis*, Willdenow, vii. 1703
„ *maderiensis*, Lamarck, vii. 1702
„ Mundyi, *Dallimore*, vii. **1713**
„ nigricans, *Henry*, vii. **1714**
„ opaca, *Aiton*, vii. **1704**
„ *ovata*, Goeppert, vii. 1709
„ Perado, *Aiton*, vii. **1702**
„ „ hybrids, vii. 1712 note
„ „ var. azorica, vii. 1703 note 1
„ platyphylla, *Webb and Berthelot*, vii. **1703**
„ *Shepherdii*, vii. 1714
„ Wilsoni, *Fisher*, vii. **1712**
Ilice tree, v. 1264
Insects—
Anisopteryx æscularia, vii. 1668
Antheræa cytherea, v. 1084
Cheimatobia boreata, vii. 1668
„ brumata, vii. 1668
Chermes, iv. 727 note 2, 741 note 6, 748 note 2
„ abietis, vi. 1367
„ corticalis, v. 1031 note
„ ilicis, v. 1280
„ laricis, ii. 363, 377
„ piceæ, iv. 784 note
„ „ var. Bouvieri, iv. 784 note
Coccus, i. 27; v. 1271
„ laricis, ii. 390
Coleophora laricella, ii. 364
Cryptococcus fagi, i. 27; v. 1031 note
Cyllene Robiniæ, vi. 1501
Cynips Tozæ, v. 1315
Diplosis pini-radiatæ, v. 1080 note 9
Eriophyes rudis, iv. 963 note 2
„ salicis, vii. 1761
Galerucella luteola, vii. 1854 note 2
„ xanthomelæna, vii. 1854 note 2
Hybernia aurantiaria, vii. 1668
„ defoliaria, vii. 1668
„ progemmaria, vii. 1668
Hylesinidæ, vii. 1912
Insects—*continued*
Hylesinus Fraxini, iv. 878
Larch bug, ii. 363
„ leaf-miner of the, ii. 364
Megastigmus pini, iv. 788
„ spermotrophus, iv. 827
Nematus Erichsonii, ii. 364
Prays curtisellus, iv. 878
Psylla alni, vii. 1855 note 2
„ ulmi, vii. 1855 note 2
Saperda carcharias, vii. 1765
Scolytus destructor, vii. 1911, 1912
„ pruni, vii. 1912
Tinea curtisella, iv. 878 note 2
Tortrix viridana, ii. 290; v. 1245
Inubuna tree, i. 4
Inu-enju tree, ii. 449
Inu-gaya tree, vi. 1469
Iron tree, iv. 917
Ironwood, iii. **543**. *See* Ostrya virginica

Jacularia, Rafinesque, iii. 494
Jizo-kamba tree, iv. 960 note
Juglans, Linnæus, ii. **249**. *See also* Walnut
„ key to species, ii. 250
Juglans *ailantifolia*, Hort., ii. 280, 281
„ *alata*, Carrière, ii. 255
„ *alba*, Linnæus, iii. 606
„ „ Michaux, iii. 601
„ „ var. *minima*, iii. 600
„ „ *odorata*, iii. 605 note 3
„ *amara*, Michaux f., iii. 600
„ *angustifolia*, Aiton, iii. 599
„ „ Poiret, iii. 600
„ californica, *Watson*, ii. 249 note 3
„ cinerea, *Linnæus*, ii. **271**, 250, 262
„ „ cultivation, ii. 272
„ „ distribution, ii. 272
„ „ hybrids, ii. 271
„ „ identification, ii. 271
„ „ introduction, ii. 272
„ „ leaves, etc., ii. 250, 271, Pl. 73, Fig. 7
„ „ timber, ii. 273
„ „ uses, ii. 273
„ *cinerea-nigra*, Wender, ii. 263
„ *compressa*, Gaertner, iii. 601
„ cordiformis, *Maximowicz*, ii. **277**, 250, 280
„ „ distribution, etc. *See* Walnut, Cordate
„ *cordiformis*, Wangenheim, iii. 600
„ *cylindrica*, Poiret, iii. 599
„ *fraxinifolia*, Lamarck, ii. 438
„ *glabra*, Miller, iii. 604
„ *illinoensis*, Wangenheim, iii. 599
„ insularis, *Grisebach*, ii. 249 note 2
„ *intermedia quadrangulata*, Carrière, ii. 255 note 3
„ jamaicensis, *De Candolle*, ii. 249 note 2
„ *laciniosa*, Michaux f., iii. 605
„ *longirostris*, Carrière, ii. 274 note 2
„ mandshurica, *Maximowicz*, ii. **276**, 250, 279
„ mexicana, *Watson*, ii. 249 note 1

Juglans—*continued*
„ *minima*, Borkhausen, iii. 600
„ mollis, *Engelmann*, ii. 249 note 1
„ *mucronata*, Michaux, iii. 600
„ nigra, *Linnæus*, ii. **262**, 250, 255, 272, 273
„ „ distribution, etc. *See* Walnut, Black
„ nigra × J. californica, *Burbank*, ii. 263
„ „ × J. cinerea, ii. 263
„ *obcordata*, Muehlenberg u. Willdenow, iii. 604
„ „ Poiret, iii. 601
„ *olivæformis*, Michaux, iii. 599
„ *ovalis*, Wangenheim, iii. 601
„ *ovata*, Miller, iii. 601
„ *Pecan*, Marshall, iii. 599
„ *porcina*, Michaux f., iii. 604
„ *pterocarpa*, Michaux, ii. 438
„ pyriformis, *Carrière*, ii. **254**, 250, 262
„ „ *Liebmann*, ii. 249 note 1
„ regia, *Linnæus*, ii. **251**, 250, 272
„ „ distribution, etc. *See* Walnut, Common
„ „ var. *Bartheriana*, ii. 254
„ „ *cordata*, ii. 276
„ „ elongata, ii. 254
„ „ *fragilis*, ii. 254
„ „ gibbosa, ii. 255
„ „ heterophylla, ii. 253
„ „ intermedia, ii. 255
„ „ laciniata, ii. 253
„ „ *macrocarpa*, ii. 254
„ „ maxima, ii. 254
„ „ monophylla, ii. 253
„ „ *octagona*, ii. 276
„ „ pendula, ii. 253
„ „ præcox, ii. 253
„ „ præparturiens, ii. 253
„ „ racemosa, ii. 254
„ „ rostrata, ii. 254
„ „ rotundifolia, ii. 253
„ „ rubra, ii. 254
„ „ *rubrocarpa*, ii. 254
„ „ serotina, ii. 253
„ „ serratifolia, ii. 253
„ „ sinensis, ii. 252
„ „ tenera, ii. 254
„ „ typica, ii. 252
„ „ variegata, ii. 253
„ regia × J. californica, ii. 255
„ „ × J. cinerea, ii. 255
„ „ × J. nigra, ii. **254**, 250
„ *rubra*, Gaertner, iii. 606
„ rupestris, *Engelmann*, ii. **274**, 250, 262
„ „ distribution, etc. *See* Walnut, Texan
„ „ var. major, ii. **274**
„ Sieboldiana, *Maximowicz*, ii. **280**, 250
„ „ distribution, etc. *See* Walnut, Siebold's
„ „ var. *cordiformis*, ii. 277
„ *squamosa*, Michaux f., iii. 601
„ „ Poiret, iii. 604
„ stenocarpa, *Maximowicz*, ii. **279**, 250, 262. *See also* Walnut, Narrow-fruited

Juglans—*continued*
„ *sulcata*, Pursh, iii. 605
„ „ Willdenow, iii. 600
„ *tomentosa*, Poiret, iii. 606
„ Vilmoriniana, *Carrière*, ii. **254**, 250, 262
„ „ leaves, etc., ii. 250, 254, Pl. 73, Fig. 3
Juniper, vi. **1395**. *See* Juniperus
„ Black, vi. 1423
„ Common, vi. 1400
„ Irish, vi. 1402
„ oil. *See* Oil of Juniper
„ Waukegan, vi. 1445 note 1
JUNIPERUS, Linnæus, vi. **1395**
„ key to species, vi. 1396
„ section CARYOCEDRUS, Endlicher, vi. **1397**
„ „ OXYCEDRUS, Endlicher, vi. **1385**
„ „ SABINA, Spach, vi. **1397**
Juniperus *ægæa*, Grisebach, vi. 1446
„ *alpina*, J. E. Gray, vi. 1401
„ *arborescens*, Moench, vi. 1435
„ *attica*, Orphanides, vi. 1412
„ *bacciformis*, Carrière, vi. 1436
„ barbadensis, *Linnæus*, vi. **1437**
„ Bedfordiana, *Loudon*, vi. **1437**
„ bermudiana, *Linnæus*, vi. **1434**, 1398
„ *bermudiana*, Lunan, vi. 1437
„ *Biasoletti*, Link, vi. 1412
„ *Biebersteiniana*, Koch, vi. 1409
„ brevifolia, *Antoine*, vi. **1413**, 1396; v. 1179 note 1
„ *canadensis*, Loddiges, vi. 1401
„ *canariensis*, Knight, vi. 1414
„ *caroliniana*, Miller, vi. 1435
„ Cedrus, *Webb and Berthelot*, vi. **1414**, 1396
„ *cernua*, Roxburgh, vi. 1430
„ chinensis, *Linnæus*, vi. **1430**; v. 1164 note 1; vi. 1398
„ „ distribution, vi. 1433
„ „ var. albo-variegata, vi. **1432**
„ „ *argentea*, vi. 1432
„ „ *argenteo-variegata*, vi. **1432**
„ „ aurea, vi. **1432**
„ „ japonica, vi. **1432**
„ „ „ aurea, vi. **1432**
„ „ „ aureo-variegata, vi. **1432**
„ „ pendula, vi. 1433 note 5
„ „ Pfitzeriana, vi. **1432**
„ „ *procumbens*, vi. 1422
„ „ Sargenti, vi. **1432**
„ „ *Smithii*, vi. 1431 and note 1
„ „ *variegata*, vi. 1432
„ *chinensis*, Parlatore, vi. 1448
„ *cinerea*, Carrière, vi. 1427
„ communis, *Linnæus*, vi. **1400**, 1396
„ „ berries, uses of, vi. 1408 and note 2
„ „ Colesborne, tree at, vi. 1405, Pl. 348

Juniperus communis, *Linnæus—continued*
„ „ cultivation, vi. 1405
„ „ distribution, vi. 1403
„ „ remarkable trees, vi. 1405
„ „ timber, vi. 1408
„ „ var. *alpina*, vi. 1401
„ „ *β* (Linnæus), vi. 1402
„ „ *caucasica*, vi. 1402
„ „ compressa, vi. **1402**
„ „ coronata, vi. 1400 note 3
„ „ cracovia, vi. **1403**
„ „ *depressa*, vi. 1401
„ „ echiniformis, vi. **1402**
„ „ *fastigiata*, vi. 1402
„ „ γ (Linnæus), vi. 1401
„ „ hemisphærica, vi. **1402**
„ „ intermedia, vi. 1401 note 2
„ „ *montana*, vi. 1401
„ „ nana, vi. **1401**, 1403, 1407
„ „ oblonga, vi. **1402**
„ „ *saxatilis*, vi. 1401
„ „ *sibirica*, vi. 1401
„ „ suecica, vi. **1402**, 1404
„ „ thiocarpos, vi. 1400 note 3
„ „ variegata aurea, vi. **1403**
„ *conferta*, Parlatore, vi. 1422 note 8
„ *cracovia*, Loddiges, vi. 1403
„ *dealbata*, Douglas, vi. 1401 note 1, 1436 note 2
„ „ Loudon, vi. 1436
„ *densa*, Gordon, vi. 1420
„ *depressa*, Rafinesque, vi. 1401
„ *dimorpha*, Roxburgh, vi. 1430
„ drupacea, *Labillardière*, vi. **1417**, 1397
„ excelsa, *Bieberstein*, vi. **1446**; iii. 454; vi. 1399
„ „ var. Perkinsii, vi. **1447**
„ „ stricta, vi. **1446**
„ „ venusta, vi. **1447**
„ *excelsa*, Brandis, vi. 1448
„ „ Loudon, vi. 1446 note 2
„ „ Pursh, vi. 1436
„ flaccida, *Schlechtendal*, vi. **1426**, 1398
„ *flagelliformis*, Loudon, vi. 1431
„ *fœtida*, var. *excelsa*, vi. 1446
„ „ *flaccida*, vi. 1426
„ formosana, *Hayata*, vi. **1415**, 1396
„ *Fortunii*, Van Houtte, vi. 1431
„ ?*fragrans*, Knight and Perry, vi. 1436
„ „ Salisbury, vi. 1435
„ *gossainthanea*, Loddiges, vi. 1438 note, 1448
„ *gracilis*, Endlicher, vi. 1437
„ „ Koch, vi. 1426
„ *hemisphærica*, Presl, vi. 1402
„ *Henryana*, Brown, vi. 1436
„ *heterocarpa*, Timbal-Lagrave, vi. 1409, 1411
„ *hibernica*, Loddiges, vi. 1402
„ *hispanica*, Booth, vi. 1402
„ „ Miller, vi. 1427
„ *hudsonica*, Loddiges, vi. 1445

Juniperus—*continued*
„ intermedia, *Schur*, vi. 1401 note 2
„ *isophyllos*, Koch, vi. 1446
„ *japonica*, Carrière, vi. 1432
„ „ var. *aurea*, vi. 1432
„ „ *pyramidalis*, vi. 1433
„ „ *variegata*, vi. 1432
„ *japonica*, Sargent, vi. 1433
„ litoralis, *Maximowicz*, vi. 1422 note 8
„ *Lobelii*, Gussone, vi. 1412
„ lucayana, *Britton*, vi. 1437
„ *lusitanica*, Miller, vi. 1444
„ *Lycia*, Linnæus, vi. 1424
„ macrocarpa, *Sibthorp and Smith*, vi. **1412**, 1396
„ „ var. ellipsoidea, vi. 1412
„ *macrocarpa*, Tenore, vi. 1410
„ *macropoda*, Boissier, vi. 1447
„ „ Hooker, vi. 1448
„ *Marschalliana*, Steven, vi. 1409
„ mexicana, *Sprengel*, vi. 1444 note 2
„ *morrisonicola*, Hayata, vi. 1420
„ *myosuros*, Sénéclauze, vi. 1425
„ *nana*, Willdenow, vi. 1401, 1436 note 2
„ nipponica, *Maximowicz*, vi. 1422 and note 4
„ *oblonga*, Bieberstein, vi. 1402
„ „ var. *pendula*, vi. 1415, 1416
„ occidentalis, *Hooker*, v. 1200 note 3; vi. 1399
„ *Olivierii*, Carrière, vi. 1446
„ *oophora*, Kunze, vi. 1424
„ *oppositifolia*, Moench, vi. 1434
„ Oxycedrus, *Linnæus*, vi. **1409**, 1396
„ „ distribution, vi. 1411
„ „ sub-species *macrocarpa*, vi. 1412
„ „ var. brachyphylla, vi. **1411**
„ „ *brevifolia*, vi. 1413
„ „ echiniformis, vi. 1402 note 2
„ „ *grandifolius*, vi. 1414
„ „ maderensis, vi. **1411**
„ „ umbilicata, vi. **1410**
„ „ viridis, vi. **1410**
„ pachyphlæa, *Torrey*, vi. **1429**, 1398
„ „ var. conspicua, vi. **1429**
„ „ elegantissima, vi. **1429**
„ „ ericoides, vi. **1429**
„ phœnicea, *Linnæus*, vi. **1424**, 1398
„ „ var. filicaulis, vi. **1425**
„ „ Lycia, vi. 1424 note 2
„ „ turbinata, vi. **1424**
„ *plochyderma*, Parlatore, vi. 1429
„ *polycarpos*, Koch, vi. 1446
„ procera, *Hochstetter*, vi. **1399**
„ *procumbens*, Sargent, vi. 1422 note 1, 1432
„ procumbens, *Siebold*, vi. **1422**, 1397
„ *prostrata*, Persoon, vi. 1444
„ pseudosabina, *Fischer and Meyer*, vi. 1421 note 2, 1423 note 1
„ *pseudosabina*, J. D. Hooker, vi. 1423

Juniperus—*continued*
„ *pygmæa*, Koch, vi. 1401
„ *pyramidalis*, Salisbury, vi. 1434
„ recurva, *Buchanan-Hamilton*, vi. **1419**, 1397
„ „ Castlewellan, tree at, vi. 1420, Pl. 349
„ „ var. *squamata*, vi. 1420
„ Reevesiana, *Knight*, vi. 1431
„ religiosa, *Carrière*, vi. **1448**
„ *religiosa*, Royle, vi. 1420, 1448
„ *repanda*, Hort., vi. 1420 note 2
„ *repens*, Nuttall, vi. 1444
„ rigida, *Siebold and Zuccarini*, vi. **1408**, 1396
„ „ var. filiformis, vi. 1409
„ *rufescens*, Link, var. *brevifolia*, vi. 1413
„ Sabina, *Linnæus*, vi. **1443**, 1399
„ „ distribution, vi. 1445
„ „ oil, vi. 1446
„ „ var. *arborea*, vi. 1427
„ „ *excelsa*, vi. 1446
„ „ gymnosperma, vi. 1444 note 1
„ „ lusitanica, vi. **1444**
„ „ *procumbens*, vi. 1444
„ „ prostrata, vi. **1444**
„ „ tamariscifolia, vi. **1444**
„ „ *taurica*, vi. 1446
„ „ variegata, vi. **1444**
„ *sabinoides*, Endlicher, vi. 1427
„ „ Grisebach, vi. 1444
„ „ Nees, vi. 1444
„ scopulorum, *Sargent*, vi. **1436**
„ *sibirica*, Burgsdorf, vi. 1401
„ sphærica, *Lindley*, vi. **1431**
„ *sphærica Sheppardi*, vi. 1431
„ *sphærocarpa*, Antoine, vi. 1412
„ squamata, *Buchanan-Hamilton*, vi. **1420**, 1397, 1419
„ struthiacea, *Knight*, vi. 1431
„ *suecica*, Miller, vi. 1402
„ taxifolia, *Hooker and Arnott*, vi. **1416** note 1
„ *taxifolia*, Masters, vi. 1415
„ *tenella*, Antoine, vi. 1409
„ Thunbergii, *Hooker and Arnott*, vi. 1432 note
„ thurifera, *Linnæus*, vi. **1427**, 1398
„ „ var. gallica, vi. **1427**
„ „ *hybrida myosuros*, vi. 1425
„ *turbinata*, Gussone, vi. 1424
„ *umbilicata*, Grenier et Godron, vi. 1410
„ virginiana, *Linnæus*, vi. **1435**, 1399
„ „ allied species and varieties, vi. 1436
„ „ cultivation, vi. 1440
„ „ distribution, vi. 1439
„ „ dwarf forms, vi. 1439
„ „ oil, vi. 1442
„ „ remarkable trees, vi. 1441
„ „ timber, iii. 466; vi. 1442

Juniperus virginiana, *Linnæus—continued*
„ „ var. alba variegata, vi. 1438
„ „ aurea variegata, vi. 1438
„ „ *australis*, vi. 1437
„ „ *barbadensis*, vi. 1437
„ „ *Bedfordiana*, vi. 1437
„ „ Chamberlainii, vi. **1438**
„ „ dumosa, vi. **1438**
„ „ elegantissima, vi. **1438**
„ „ glauca, vi. **1438**, 1441
„ „ *gracilis*, vi. 1437
„ „ pendula, vi. **1438**
„ „ „ viridis, vi. **1438**
„ „ pyramidalis, vi. **1438**
„ „ Schottii, vi. **1438**
„ „ *scopulorum*, vi. 1436
„ „ Triomphe d'Angers, vi. **1438**
„ „ tripartita, vi. **1438**
„ Wallichiana, *J. D. Hooker*, vi. **1423**, 1398
„ *Webbii*, Carrière, vi. 1414

Kaki, iv. **995**, 1000. *See* Diospyros kaki
Kalopanax, Miquel, vii. 1694
Kalopanax ricinifolium, Miquel, vii. 1694
„ ? *sp.*, Zabel, vii. 1694
Kara jcham tree, v. 1102
"Karelsky" (birchwood), iv. 974
Kawaka, iii. 488
Kaya tree, vi. 1463
Keaki (Keyaki) tree, iv. 921 and note 2
Keteleeria, Carrière, vi. **1473**
Keteleeria Davidiana, *Beissner*, vi. **1475**
„ *formosana*, Hayata, vi. 1475, 1476
„ Fortunei, *Carrière*, vi. **1474**
„ *sacra*, Beissner, vi. 1475
Kingnut, iii. **605**. *See* Carya sulcata
Kino, vi. 1613 note 3
Kiri wood, vi. 1495
Ki-sasage tree, vi. 1488
Knieholz tree, v. 1132 note 2
Kobushi tree, vi. 1594
Koelreuteria, Laxmann, vii. **1930**
Koelreuteria bipinnata, *Franchet*, vii. **1931**
„ *chinensis*, Hoffmannsegg, vii. 1932
„ Henryi, *Dümmer*, vii. **1931**
„ *japonica*, Hasskarl, vii. 1933 note 2
„ „ Siebold, vii. 1932 note 3
„ minor, *Hemsley*, vii. **1930**
„ paniculata, *Laxmann*, vii. **1932**, 1931
„ „ distribution, vii. 1932
„ „ varieties, vii. 1932
„ *paullinioides*, L'Héritier, vii. 1932
Kome-tsuga, ii. 247
Koyamaki tree, iii. 568
Kuan-yin-sha tree, i. 108, 132
Kung-ch'io-sung tree, i. 132
Kuo-sung tree, v. 1044
Kuri tree, iv. 855
Kuro-matsu tree, v. 1144
Kuro-tsuga tree, ii. 247
Kurumi tree, ii. 281
Kuwa tree, vi. 1611

LABURNUM, Linnæus, vi. 1521
„ etymology, vi. 1525 note 7
Laburnum, vi. 1522. *See* Laburnum vulgare
„ Adami, *Kirchner*, vi. 1524
„ Alpine, vi. 1521. *See* Laburnum alpinum
„ alpinum, *Berchtold and Presl*, vi. 1521, 1523 note 5
„ „ Countesswells, tree at, vi. Pl. 370
„ „ var. microstachys, vi. 1522
„ „ pilosum, vi. 1522
„ *anagyroides*, Medicus, vi. 1522
„ caramanicum, *Bentham and Hooker*, vi. 1521
„ *Parksii*, vi. 1524
„ Scotch, vi. 1522
„ vulgare, *Berchtold and Presl*, vi. 1522
„ „ cultivation, vi. 1525
„ „ distribution, vi. 1525
„ „ hybrids, vi. 1523
„ „ remarkable trees, vi. 1526
„ „ timber, vi. 1527
„ „ var. Alschingeri, vi. 1523
„ „ aureum, vi. 1523
„ „ bullatum, vi. 1523
„ „ Carlieri, vi. 1523
„ „ *intermedium*, vi. 1523
„ „ *Parksii*, vi. 1523
„ „ pendulum, vi. 1523
„ „ quercifolium, vi. 1523
„ „ sessilifolium, vi. 1523
„ „ *Watereri*, vi. 1523
„ Watereri, *Dippel*, vi. 1523
Lamp-black, v. 1118
Lang-yü tree, vii. 1928
Larch, ii. 345. *See also* Larix
„ American, ii. 392. *See* Larix americana
„ Chinese, ii. 391. *See* Larix Potanini
„ Common, ii. 349. *See also* Larix europæa
„ „ aphis, ii. 363
„ „ bark, ii. 373
„ „ Colesborne, trees at, ii. 366, Pl. 100
„ „ cultivation, ii. 358
„ „ diseases, ii. 361
„ „ distribution, ii. 351
„ „ Dunkeld, mother larch at, ii. 367, Pl. 103
„ „ Gordon Castle, forked tree at, ii. 368, Pl. 104
„ „ heart-rot, ii. 363
„ „ in the Alps, ii. 371, Pl. 105
„ „ in England, ii. 365
„ „ in Ireland, ii. 369
„ „ in Scotland, ii. 367
„ „ in other countries, ii. 372
„ „ introduction, ii. 353
„ „ Oakley Park, trees in, ii. 365, Pl. 98; v. 1207
„ „ Poltalloch, tree at, vi. Pl. 369
„ „ produce per acre, ii. 359
„ „ propagation, ii. 353
„ „ remarkable trees, ii. 365
Larch, Common—*continued*
„ „ root-rot, ii. 363
„ „ seed, from the French Alps, ii. 354, 355
„ „ „ from Scotland, ii. 354
„ „ „ from the Tyrol, ii. 354
„ „ „ germination, ii. 356
„ „ Sherborne, trees at, ii. 366, Pl. 99
„ „ Taymouth, champion tree at, ii. 367, Pl. 101
„ „ „ forked tree at, ii. 367, Pl. 102
„ „ timber, ii. 372
„ „ underplanting, ii. 358 note
„ „ varieties, ii. 350
„ „ weeping, ii. 350
„ Dahurian, ii. 379. *See also* Larix dahurica
„ „ distribution and history, ii. 380
„ „ remarkable trees, ii. 381; Errata, 1938
„ „ Woburn, tree at, ii. 381, Pl. 106
„ Japanese, ii. 384. *See also* Larix leptolepis
„ „ cultivation, ii. 386
„ „ disease, ii. 386
„ „ distribution, ii. 385
„ „ introduction, ii. 385
„ „ remarkable trees, ii. 387
„ „ Tortworth, tree at, ii. 387, Pl. 108
„ Kurile, ii. 383, Pl. 107. *See* Larix kurilensis
„ Lyall's, ii. 403. *See also* Larix Lyallii
„ „ in Alberta, ii. 403, Pl. 112
„ „ in Montana, ii. 405
„ Russian, ii. 374. *See also* Larix sibirica
„ „ cultivation, ii. 376
„ „ distribution, ii. 375
„ „ timber, ii. 377
„ „ varieties, ii. 348, 375
„ Siberian, ii. 376. *See* Larch, Russian
„ Sikkim, ii. 388. *See also* Larix Griffithii
„ „ remarkable trees, ii. 390
„ „ Strete Raleigh, tree at, ii. 390, Pl. 109
„ Silesian, ii. 352
„ Western, ii. 395. *See also* Larix occidentalis
„ „ distribution and history, ii. 396
„ „ Montana, trees in, ii. 401, Pl. 111
„ „ timber, ii. 402
„ „ varieties, ii. 348, 395
Larch bug, leaf-miner. *See* Insects
LARICOPSIS, Kent, vi. 1477
Laricopsis Kaempferi, Kent, vi. 1477
LARIX, Adanson, ii. 345; i. 172. *See also* Larch
„ key to species, ii. 347
LARIX, Miller, iii. 451
Larix *altaica*, Nelson, ii. 374
„ americana, *Michaux*, ii. 392, 346, 348, 381, 382, 402
„ „ distribution, ii. 393
„ „ Dropmore, tree at, ii. 394, Pl. 110

Larix americana, *Michaux—continued*
„ „ remarkable trees, ii. 394
„ „ var. *pendula*, ii. 379
„ „ *rubra*, ii. 392
„ *archangelica*, Lawson, ii. 374
„ Cajanderi, *Mayr*, ii. **346**, 375, 380
„ *Cedrus*, Miller, iii. 453
„ chinensis, *Beissner*, ii. **346**
„ dahurica, *Turczaninow*, ii. **379**, 346, 348, 375, 394
„ „ distribution, etc. *See* Larch, Dahurian
„ „ var. *japonica*, ii. 383
„ *decidua*, Miller, ii. 349
„ „ var. *rossica*, ii. 374
„ „ *sibirica*, ii. 374
„ europæa, *De Candolle*, ii. **349**, 348, 374, 379
„ „ distribution, etc. *See* Larch, Common
„ „ var. *dahurica*, ii. 379
„ „ pendula, ii. **350**
„ „ pendulina, ii. **350**
„ „ *sibirica*, ii. 374
„ *Griffithiana*, Carrière, ii. 388
„ Griffithii, *J. D. Hooker*, ii. **388**, 347, 381. *See also* Larch, Sikkim
„ *Griffithii*, Masters, ii. 391
„ *intermedia*, Lawson, ii. 374
„ *japonica*, Carrière, ii. 384
„ „ var. *microcarpa*, ii. 385 note
„ *japonica*, A. Murray, ii. 385 note
„ *Kaempferi*, Carrière, vi. 1477
„ „ Sargent, ii. 384
„ „ var. *minor*, ii. 385 note
„ kamtschatika, *Carrière*, ii. **346**, 380 note 2
„ kurilensis, *Mayr*, ii. **383**, 347
„ „ in Kurile Islands, ii. 383, Pl. 107
„ *laricina*, Koch, ii. 392
„ *Larix*, Karsten, ii. 349
„ leptolepis, *Endlicher*, ii. **384**; i. 90; ii. 204, 347; vi. 1477 note 2
„ „ distribution, etc. *See* Larch, Japanese
„ „ var. *minor*, ii. 385 note
„ „ *Murrayana*, ii. 385 note
„ Lyallii, *Parlatore*, ii. **403**, 347, 395. *See also* Larch, Lyall's
„ *microcarpa*, Desfontaines, ii. 377, 381, 392
„ occidentalis, *Nuttall*, ii. **395**, 347, 403
„ „ distribution, etc. *See* Larch, Western
„ *patula*, Salisbury, iii. 453
„ *pendula*, Masters, ii. 392
„ „ Salisbury, ii. 379, 381
„ Potanini, *Batalin*, ii. **391**, 347
„ Principis Rupprechtii, *Mayr*, ii. **346**, 376
„ *pyramidalis*, Salisbury, ii. 349
„ *rossica*, Sabine, ii. 374
„ sibirica, *Ledebour*, ii. **374**, 347, 348, 353
„ „ distribution, etc. *See* Larch, Russian
„ „ var. *rossica*, ii. 375
„ *tenuifolia*, Salisbury, ii. 392
Larix—*continued*
„ *thibetica*, Franchet, ii. 391
„ *vulgaris*, Fischer, ii. 349
Lathræa squamaria. *See* Plants, Miscellaneous
Latsche tree, v. 1132 note 2
Laurel, Californian, vi. **1531**. *See* Umbellularia californica
„ Cherry, vi. **1535**
„ Common, vi. **1551**. *See* Prunus Laurocerasus
„ Portugal, vi. **1553**. *See* Prunus lusitanica
LAURELIA, Jussieu, vii. **1700**
Laurelia *aromatica*, Masters, vii. 1701
„ „ Poiret, vii. 1700
„ Novæ-Zelandiæ, *Cunningham*, vii. **1700**
„ sempervirens, *Tulasne*, vii. **1700**
„ *serrata*, Bertero, vii. 1701 note
„ serrata, *Philippi*, vii. **1701**, 1700 note 1
Laurocerasus lusitanica, Roemer, vi. 1553
„ *officinalis*, Roemer, vi. 1551
Laurus nobilis, vii. 1748
„ *regalis*, Standish and Noble, vi. 1531
„ *regia*, Douglas, vi. 1532 note 2
„ *Sassafras*, Linnæus, iii. 516
Legföhre tree, v. 1132
LEUCOXYLUM, Blume, iv. 995
Liard tree, vii. 1835 note 1
Libanol, resin, iii. 473
LIBOCEDRUS, Endlicher, iii. **484**
Libocedrus austro-caledonica, *Brongniart et Gris*, iii. 485
„ Bidwilli, *J. D. Hooker*, iii. **488**, 485
„ chilensis, *Endlicher*, iii. **486**, 485
„ „ in Chile, iii. 487, Pl. 141
„ Craigana, *Low*. *See* Errata, 1939
„ *cupressoides*, Sargent, iii. 485
„ decurrens, *Torrey*, iii. 489; i. 185; iii. 485, 698
„ „ cultivation, iii. 491
„ „ distribution, iii. 490
„ „ Frogmore, tree at, iii. 492, Pl. 142
„ „ in England, iii. 492
„ „ in France, iii. 493
„ „ in Ireland, iii. 493
„ „ in Italy, iii. 493
„ „ in Scotland, iii. 492
„ „ remarkable trees, iii. 492
„ Doniana, *Endlicher*, iii. **487**, 485
„ macrolepis, *Bentham et Hooker*, iii. **488**, 485; v. 1164 note 1
„ papuana, *F. v. Mueller*, iii. 485
„ *plumosa*, Sargent, iii. 487
„ tetragona, *Endlicher*, iii. 485
Lime, vii. **1653**. *See also* Tilia
„ American, vii. **1685**. *See* Tilia americana
„ Common, vii. **1664**. *See* Tilia vulgaris
„ Large-leaved, vii. **1661**. *See* Tilia platyphyllos
„ Small-leaved, vii. **1656**. *See* Tilia cordata
„ White, vii. **1675**. *See* Tilia tomentosa
„ „ Weeping, vii. **1677**. *See* Tilia petiolaris
Lindera Tzumu, Hemsley, iii. 515

LIQUIDAMBAR, Linnæus, iii. 499
Liquidambar *acerifolia*, Maximowicz, iii. 506
„ formosana, *Hance*, iii. **506**, 500
„ „ Chinese name, iii. 507
„ „ leaves, iii. 506, Pl. 199, Fig. 8
„ *imberbe*, Aiton, iii. 505
„ *macrophylla*, Oersted, iii. 500
„ *Maximowiczii*, Miquel, iii. 506
„ orientalis, *Miller*, iii. **505**, 500
„ „ cultivation, iii. 506
„ „ distribution, iii. 505
„ „ leaves, iii. 505, Pl. 199, Fig. 6
„ Rosthornii, *Diels*, iii. 499 note
„ sp., *Hemsley*, iii. 499 note
„ styraciflua, *Linnæus*, iii. **500**, 506
„ „ branchlets and buds, iii. 501, Pl. 200, Fig. 2
„ „ branchlets with corky wings, iii. 500
„ „ cultivation, iii. 502
„ „ distribution, iii. 501
„ „ history, iii. 502
„ „ identification, iii. 501
„ „ in America, near Mount Carmel, iii. 502, Pl. 144 A
„ „ in England, iii. 502-503
„ „ in Ireland, iii. 503
„ „ in Scotland, iii. 503
„ „ leaves, iii. 500, Pl. 199, Fig. 7
„ „ remarkable trees, iii. 503
„ „ timber, iii. 503
„ „ varieties, iii. 501
„ wild species in China, iii. 499
LIRIODENDRON, Linnæus, i. **63**; iii. 514. *See also* Tulip tree
Liriodendron *chinense*, Hemsley, i. 64
„ chinense, *Sargent*, i. **64**
„ Tulipifera, *Linnæus*, i. **65**, 64
„ „ distribution, etc. *See* Tulip tree
„ „ var. argenteo-variegata, i. 66
„ „ aurea, i. **66**
„ „ aureo-marginata, i. 66
„ „ aureo-variegata, i. 66
„ „ *chinense*, i. 64
„ „ crispa, i. **66**
„ „ heterophylla, i. **66**
„ „ integrifolia, i. **66**
„ „ medio-picta, i. 66
„ „ obtusiloba, i. **66**
„ „ pyramidalis, i. **66**
„ „ variegata, i. **66**
LITHOCARPUS, Blume, v. 1215
Litsea *laxiflora*, Hemsley, iii. 515
„ parvifolia, *Mez*, vi. 1531 note
Locust tree, vi. **1497**. *See* Robinia Pseudacacia
„ Clammy, vi. **1507**. *See* Robinia viscosa
„ Honey, vi. **1517**. *See* Gleditschia triacanthos
„ Western, vi. **1506**. *See* Robinia neomexicana
Lon or lönn tree, iii. 657
Lophodermium Pinastri. *See* Fungi
LOPHOZONIA, Turczaninow, iii. 545
Lophozonia heterocarpa, Turczaninow, iii. 552
Loranthus europæa, etc. *See* Plants, Miscellaneous
Luan tree, vii. 1933

MAACKIA, Ruprecht et Maximowicz, ii. 445
Maackia amurensis, Ruprecht et Maximowicz, ii. 449
Maave tree, i. 161
Madroña, iii. **565**. *See* Arbutus Menziesii
MAGNOLIA, Linnæus, vi. **1581**
„ key to species, vi. 1581
Magnolia acuminata, *Linnæus*, vi. **1586**, 1582
„ „ distribution and cultivation, vi. 1587
„ „ timber, i. 74 and note
„ „ var. cordata, vi. **1586**
„ „ West Dean Park, tree at, vi. 1587, Pl. 358
„ *auricularis*, Salisbury, vi. 1590
„ *auriculata*, Lamarck, vi. 1590
„ Campbelli, *Hooker and Thomson*, vi. **1590**, 1582
„ conspicua, *Salisbury*, vi. **1596**, 1583
„ „ var. Alexandrina, vi. 1597
„ „ nigra, vi. 1597
„ „ Norbertiana, vi. 1597
„ „ purpurascens, vi. 1596 note 2
„ „ *Soulangiana*, vi. 1596
„ *cordata*, Michaux, vi. 1586
„ Delavayi, *Franchet*, vi. **1592**, 1581
„ denudata, *Thunberg*, vi. **1597**, 1583
„ „ var. gracilis, vi. **1598**
„ *discolor*, Ventenat, vi. 1597
„ *fœtida*, Sargent, vi. 1583
„ Fraseri, *Walter*, vi. **1590**, 1582
„ „ var. pyramidata, vi. **1590**
„ *frondosa*, Salisbury, vi. 1588
„ glauca, *Linnæus*, vi. **1585**, 1581
„ „ timber, i. 74 and note
„ „ var. α (Thunberg), vi. 1594
„ „ longifolia, vi. **1585**
„ „ *major*, vi. 1585
„ „ *Thompsoniana*, vi. 1585
„ *gracilis*, Salisbury, vi. 1598
„ grandiflora, *Linnæus*, vi. **1583**, 1581
„ „ North Carolina, evergreen tree in, vi. 1584, Pl. 353
„ „ timber, i. 74 and note; vi. 1584
„ „ var. angustifolia, vi. **1583**
„ „ exoniensis, vi. **1583**
„ „ Gallissoniensis, vi. **1583**
„ „ *lanceolata*, vi. 1583
„ „ with double flowers, vi. 1583
„ *Halleana*, Parsons, vi. 1599
„ hypoleuca, *Siebold and Zuccarini*, vi. **1592**, 1582
„ Kobus, *De Candolle*, vi. **1594**, 1582
„ „ var. borealis, vi. **1594**
„ *Kobus*, Sargent, vi. 1594

Magnolia—*continued*
„ Lennei, *Topf*, vi. **1596**
„ „ var. rosea-grandiflora, vi. 1597
„ macrophylla, *Michaux*, vi. **1589**, 1582
„ *major*, Schneider, vi. 1585
„ *obovata*, Thunberg, vi. 1597
„ parviflora, *Siebold and Zuccarini*, vi. **1598**, 1582
„ *precia*, Correa, vi. 1596
„ *purpurea*, Curtis, vi. 1597
„ *pyramidata*, Pursh, vi. 1590
„ salicifolia, *Maximowicz*, vi. **1595**, 1582
„ Soulangiana, *Soulange-Bodin*, vi. **1596**
„ stellata, *Maximowicz*, vi. **1599**, 1583
„ „ var. rosea, vi. 1599 note 3
„ Thompsoniana, *Koch*, vi. **1585**, 1582
„ *Thurberi*, vi. 1594
„ *tomentosa*, Thunberg, vi. 1594
„ tripetala, *Linnæus*, vi. **1588**, 1582
„ „ hybrid, vi. 1585
„ *umbrella*, Lamarck, vi. 1588
„ *virginiana*, Linnæus. *See* Errata, 1942
„ Watsoni, *Hooker*, vi. **1598**, 1582
„ *yulan*, Desfontaines, vi. 1596
Maidenhair tree, i. **56**. *See* Ginkgo biloba
Ma-liu tree, ii. 444
Malus, Ruppius, i. 141
Malus acerba, Mérat, vi. 1570
„ *astracanica*, Dumont de Courset, vi. 1571
„ *floribunda*, Siebold, vi. 1569
„ *Medwietzkyana*, vi. 1571 note 1
„ *paradisiaca*, Medicus, vi. 1570
„ *pumila*, Miller, vi. 1570
„ *Sargenti*, Rehder, vi. 1569 note 3
„ *sylvestris*, Miller, vi. 1570
„ *Toringo*, Siebold, vi. 1569
Mañiu tree, vi. 1459
Manna, iv. 889; v. 1270
„ ash, iv. 887
„ of Briançon, ii. 373
Mao-li tree, iv. 855
Maple, iii. **630**. *See also* Acer
„ Ash-leaved, iii. **684**. *See also* Acer Negundo
„ „ cultivation, iii. 686
„ „ distribution, iii. 685
„ „ leaves, iii. 640, 684, Pl. 205, Fig. 2
„ „ remarkable trees, iii. 686
„ „ timber, iii. 686
„ „ varieties, iii. 684
„ "Bird's-eye," iii. 680
„ "Blister," iii. 680
„ Common, iii. **651**. *See also* Acer campestre
„ „ Cassiobury, tree at, iii. 654, Pl. 184
„ „ cultivation, iii. 653
„ „ distribution, iii. 652
„ „ fossil, iii. 653
„ „ hybrids, iii. 652
„ „ Langley Park, tree at, iii. 654, Pl. 185
„ „ leaves, iii. 638, 651, Pl. 207, Figs. 23, 24, 25
Maple, Common—*continued*
„ „ remarkable trees, iii. 654
„ „ timber, iii. 655
„ „ varieties, iii. 652
„ "Curly," iii. 680
„ Eagle's Claw, iii. **656**
„ Hawk's-foot, iii. **656**
„ hybrids, iii. 634, 637, 652, 657, 666
„ Italian, iii. **663**. *See also* Acer Opalus
„ „ cultivation, iii. 664
„ „ distribution, iii. 664
„ „ Hargham, tree at, iii. 665, Pl. 189
„ „ leaves, iii. 635, 663, Pl. 206, Fig. 14
„ „ remarkable trees, iii. 665
„ „ timber, iii. 665
„ „ varieties, iii. 663
„ Montpellier, iii. **665**. *See also* Acer Monspessulanum
„ „ distribution, iii. 666
„ „ hybrid, iii. 666
„ „ leaves, iii. 632, 665, Pl. 207, Fig. 31
„ „ Rickmansworth, tree at, iii. 666, Pl. 190
„ Norway, iii. **656**. *See also* Acer platanoides
„ „ Colesborne, tree at, iii. 659, Pl. 188
„ „ cultivation, iii. 658
„ „ distribution, iii. 657
„ „ Emsworth, tree at, iii. 659, Pl. 186
„ „ hybrid, iii. 657
„ „ in England, iii. 658
„ „ in Ireland, iii. 659
„ „ in Scotland, iii. 659
„ „ leaves, iii. 637, 656, Pl. 206, Fig. 11
„ „ mistletoe on, iii. 658
„ „ Park Place, tree at, iii. 659, Pl. 187
„ „ remarkable trees, iii. 658
„ „ varieties, iii. 656
„ Oregon, iii. **681**. *See also* Acer macrophyllum
„ „ cultivation, iii. 682
„ „ distribution, iii. 682
„ „ in the Olympic Mountains, iii. 682, Pl. 193
„ „ leaves, iii. 638, 681, Pl. 205, Fig. 3
„ „ remarkable trees, iii. 683
„ „ timber, iii. 683
„ Red, iii. **671**. *See also* Acer rubrum
„ „ Bagshot Park, tree at, iii. 673, Pl. 177
„ „ cultivation, iii. 673
„ „ distribution, iii. 672
„ „ fastigiate tree, iii. 672
„ „ in England, iii. 673
„ „ in Ireland, iii. 674
„ „ in Scotland, iii. 674
„ „ leaves, iii. 635, 671, Pl. 207, Fig. 27
„ „ remarkable trees, iii. 673
„ „ varieties, iii. 671, 673
„ „ Whitton, tree at, iii. 673, Pl. 192

Maple—*continued*
„ Silver, iii. **674.** *See also* Acer dasycarpum
„ „ cultivation, iii. 676
„ „ distribution, iii. 675
„ „ leaves, iii. 636, 674, Pl. 207, Fig. 28
„ „ remarkable trees, iii. 676
„ „ timber, iii. 677
„ „ varieties, iii. 675
„ Sugar, iii. **677.** *See also* Acer saccharum
„ „ distribution, iii. 679
„ „ leaves, iii. 635, 677, Pl. 206, Fig. 12
„ „ Park Place, tree at, iii. 680, Pl. 191
„ „ remarkable trees, iii. 679
„ „ timber, iii. 680
„ „ varieties, iii. 678
„ Wager's, iii. 676
Maple gunstocks, ii. 260
„ sugar, iii. 681
Marron de Lyons, iv. 841
Marrone, iv. 841
Marrons, iv. 853
"Masur" (birchwood), iv. 974
Mazer bowls, iii. 655
Megastigmus pini, etc. *See* Insects
Melanconis stilbostoma. *See* Fungi
Mélèze, v. 1154
Melojo tree, v. 1315
Me-matsu tree, v. 1126
Mertensia, Humboldt, Bonpland, et Kunth, iv. 925
Mespilus, sub-genus *Crataegus*, Ascherson and Graebner, vii. 1731
Mespilus germanica, hybrid, vii. 1732
„ grandiflora, *Smith*, vii. **1732**
„ *lobata*, Poiret, vii. 1732
„ *monogyna*, Allioni, vii. 1733
„ *oxyacantha*, Crantz, vii. 1739
„ *Smithii*, De Candolle, vii. 1732
Microcachrys tetragona, *J. D. Hooker*, vi. 1449 note 5
Microptelea, Spach, vii. 1847
Microptelea parvifolia, Spach, vii. 1928
Mistletoe. *See* Plants, Miscellaneous
Mockernut, iii. **606.** *See* Carya tomentosa
Mohria, Britton, vi. 1600
Mohria carolina, Britton, vi. 1602
„ *diptera*, Britton, vi. 1601
Mohrodendron, Britton, vi. 1600
Mohrodendron carolinum, Britton, vi. 1602
„ *dipterum*, Britton, vi. 1601
Momisia, F. G. Dietrich, iv. 925
Morophorum, Necker, vi. 1605
Morus, Linnæus, vi. **1605**
Morus alba, *Linnæus*, vi. **1609**, 1606
„ „ leaves, iv. Pl. 267, Fig. 2; vi. 1609
„ „ var. colombassa, vi. **1611**
„ „ constantinopolitana, vi. **1611**
„ „ latifolia, vi. **1610**
„ „ macrophylla, vi. **1610**
„ „ mongolica, vi. **1609**
„ „ Morettiana, vii. 1868 note 2
„ „ *multicaulis*, vi. 1610
„ „ pendula, vi. **1611**
„ „ pyramidalis, vi. **1611**
Morus alba, *Linnæus*—*continued*
„ „ var. stylosa, vi. **1610**
„ „ tatarica, vi. **1610**
„ „ venosa, vi. **1610**
„ *canadensis*, Poiret, vi. 1608
„ cathayana, *Hemsley*, vi. **1606**
„ *constantinopolitana*, Poiret, vi. 1611
„ indica, *Linnæus*, vi. 1609 note 3
„ *japonica*, Audibert, vi. 1610
„ *laciniata*, Miller, vi. 1606 note 1
„ lævigata, *Wallich*, vi. 1609 note 3
„ *latifolia*, Poiret, vi. 1610
„ *multicaulis*, Perrottet, vi. 1610
„ nigra, *Linnæus*, vi. **1606**, 1605
„ „ leaves, iv. Pl. 267, Fig. 1; vi. 1606
„ „ var. *laciniata*, vi. 1606 note 1
„ *reticulata*, Rafinesque, vi. 1608
„ *riparia*, Rafinesque, vi. 1608
„ rubra, *Linnæus*, vi. **1608**, 1606
„ „ leaves, iv. Pl. 267, Fig. 3; vi. 1608
„ „ var. tomentosa, vi. **1608**
„ *scabra*, Willdenow, vi. 1608
„ serrata, *Roxburgh*, vi. 1609 note 3
„ *stylosa*, Seringe, vi. 1610
„ *tatarica*, Linnæus, vi. 1610
„ tiliæfolia, *Makino*, vi. 1608 note 3
„ *tomentosa*, Rafinesque, vi. 1608
Mu-lan tree, vi. 1598
Mu-lan-tze tree, vii. 1933
Mulberry, Black, vi. **1606.** *See* Morus nigra
„ Red, vi. **1608.** *See* Morus rubra
„ White, vi. **1609.** *See* Morus alba
Mura tree, v. 1015
Muttee-pal resin, i. 32
Myrtle, Oregon, vi. 1533
„ Red and White Tasmanian, iii. 551
Myzodendron linearifolium, etc. *See* Plants, Miscellaneous

Narwan tree, vii. 1893 and note 2
Negral tree, v. 1315
Negundo, Ludwig, iii. 630
Negundo aceroides, Moench, iii. 684
„ „ var. *violaceum*, iii. 685 note 2
„ *californicum*, Torrey and Gray, iii. 684
„ *fraxinifolium*, Nuttall, iii. 684
Nematus Erichsonii. *See* Insects
Neoza, seeds of Pinus Gerardiana used for food, v. 1053
Nettle tree, iv. **926.** *See* Celtis australis
„ „ American, iv. **931**
„ „ Virginian, iv. 927 note 3
Nezuko tree, i. 196
Niu-sung tree, v. 1044
Noltia, Schumacher, iv. 995
Nothofagus, Blume, iii. 545
„ key to species, iii. 545
Nothofagus alpina, *Reiche*, iii. 545 note 2
„ antarctica, *Oersted*, iii. **553**, 545, 551, 555 and note, 556
„ „ distribution, iii. 555
„ „ leaves, iii. 553, Pl. 202, Fig. 1

Nothofagus antarctica, *Oersted—continued*
„ „ var. *bicrenata*, iii. 554 note 1, 556
„ „ sublobata, iii. **554**
„ „ uliginosa, iii. **554**
„ apiculata, *Krasser*, iii. **546**
„ betuloides, *Blume*, iii. **551**, 546, 555, 556 and note 3
„ „ Bicton, tree at, iii. 552, Pl. 155
„ „ distribution, iii. 555
„ „ leaves, iii. 551, Pl. 202, Fig. 3
„ Blairii, *Krasser*, iii. **547**
„ cliffortioides, *Oersted*, iii. **547**
„ „ leaves, iii. 547, Pl. 202, Fig. 4
„ Cunninghami, *Oersted*, iii. **550**, 546
„ „ Fota, tree at, iii. 551, Pl. 154
„ „ leaves, iii. 550, Pl. 202, Fig. 5
„ Dombeyi, *Blume*, iii. **546**, 554, 555 and note, 556
„ „ distribution, iii. 555
„ fusca, *Oersted*, iii. **549**, 546
„ „ leaves, iii. 549, Pl. 202, Fig. 8
„ Gunnii, *Oersted*, iii. **546**
„ Menziesii, *Oersted*, iii. **548**, 546
„ „ leaves, iii. 548, Pl. 202, Fig. 9
„ Montagnei, *Reiche*, iii. **545**
„ Moorei, *Krasser*, iii. **549**, 547
„ „ leaves, iii. 549, Pl. 202, Fig. 7
„ nitida, *Krasser*, iii. **546**, 556
„ „ distribution, iii. 555
„ obliqua, *Blume*, iii. **552**, 546
„ „ Chile, forest in, iii. 555, Pl. 156
„ „ distribution, iii. 554
„ „ leaves, iii. 553, Pl. 202, Fig. 2
„ „ var. macranthera, iii. **553**
„ „ macrocarpa, iii. **553**
„ „ valdiviana, iii. **553**
„ procera, *Oersted*, iii. **546**
„ „ distribution, iii. 555
„ pumilio, *Krasser*, iii. **546**, 554 note 1, 555, 556
„ Solandri, *Oersted*, iii. **547**
Nyssa, Linnæus, iii. **508**
Nyssa acuminata, *Small*, iii. 508
„ *angulisans*, Michaux, iii. 512
„ aquatica, *Marshall*, iii. **512**, 509
„ „ cultivation, iii. 513
„ „ distribution, iii. 513
„ „ identification, iii. 513
„ „ leaves, iii. 512, Pl. 199, Fig. 10
„ „ timber, iii. 514
„ *biflora*, Walter, iii. 508, 510
„ *denticulata*, Aiton, iii. 512
„ *grandidentata*, Michaux f., iii. 512
„ *multiflora*, Wangenheim, iii. 509
„ Ogeche, *Marshall*, iii. 508
„ sessiliflora, *Hooker*, iii. 508

Nyssa—*continued*
„ sinensis, *Oliver*, iii. **514**, 508, 509
„ „ leaves, iii. 514, Pl. 199, Fig. 1
„ sylvatica, *Marshall*, iii. **509**, 513
„ „ branchlets and buds, iii. 509-510, Pl. 200, Fig. 5
„ „ cultivation, iii. 511
„ „ distribution, iii. 510
„ „ identification, iii. 509
„ „ in America, iii. 510-511, Pl. 144 B
„ „ in England, iii. 511
„ „ leaves, iii. 509, Pl. 199, Figs. 2 and 9
„ „ Strathfieldsaye, tree at, iii. 511, Pl. 145
„ „ timber, iii. 512
„ „ var. biflora, iii. **510**
„ *tomentosa*, Michaux, iii. 512
„ *uniflora*, Wangenheim, i. 177; iii. 512
„ *villosa*, Michaux, iii. 509

Oak, ii. **282**; v. **1215**. *See also* Quercus
„ Abraham's, v. 1280
„ Algerian, v. **1318**. *See* Quercus Mirbeckii
„ American, cultivation of, v. 1224
„ apples, ii. 333
„ Asiatic, cultivation of, v. 1227
„ Audley End, Essex, hybrid at, v. **1291**, Pl. 327. *See* Quercus audleyensis
„ Bartram's, v. **1233**. *See* Quercus heterophylla
„ Bear, v. **1238**. *See* Quercus ilicifolia
„ Black, v. **1239**. *See* Quercus velutina
„ bog, ii. **343**
„ brown, ii. **337**, 323
„ „ in Rockingham Park, ii. 323, Pl. 96
„ Burr, v. **1304**. *See* Quercus macrocarpa
„ Californian Black, v. **1241**. *See* Quercus Kelloggii
„ „ Live, v. **1252**. *See* Quercus agrifolia
„ „ Valley, v. **1306**. *See* Quercus lobata
„ Chestnut, v. **1309**. *See* Quercus Prinus
„ Chestnut-leaved, v. **1271**. *See* Quercus castaneæfolia
„ Chilean, iii. 554
„ Common, ii. **282**. *See also* Quercus pedunculata
„ „ bark, ii. 335
„ „ branchlets and buds, ii. 282, Pl. 78, Fig. 1
„ „ cleaving or splitting, ii. 339
„ „ culture, ii. 298
„ „ distribution, ii. 296
„ „ etymology, ii. 297
„ „ in Forest of Dean, ii. 300, 301, 335
„ „ in France, ii. 330
„ „ galls, ii. 333 note 2
„ „ growth, rapid, ii. 308
„ „ „ rate of, ii. 290, 302, 303
„ „ hybrids, ii. 288; v. 1283, 1288 and note, 1314 and note 2, 1316; vii. 1852 note 2

Oak, Common—*continued*
" " injured by lightning, ii. 332
" " injured by mice, ii. 299
" " insects which attack, ii. 333
" " leaves, ii. 283, Pl. 79
" " medullary rays, ii. 339
" " mistletoe on, ii. 331 note 2, 333
" " mistletoe-bearing trees in England, ii. 334
" " panelling, ii. 339
" " piles, ii. 344
" " planting in the New Forest, ii. 303
" " prehistoric boat, ii. 343
" " propagation, ii. 298
" " quartering, ii. 340, 341
" " remarkable trees—
at Althorp, ii. 321, Pl. 94
in Bagot's Park, ii. 316, 317, Pl. 90
" " King Oak, ii. 317, Pl. 91
Beggar's, ii. 317, 327, Pl. 89
Billy Wilkin's, ii. 298, 315, Pl. 88
at Bourton-on-the-Water, ii. 317, Pl. 93; v. 1302
Cowthorpe, ii. 298, 325
in Devonshire, ii. 316
"Duke's Walking-Stick," ii. 322
in Essex, ii. 324
in Gloucestershire, ii. 320
Greendale, ii. 322
in Hampshire, ii. 316
in Herefordshire, ii. 309
Hereford Monarch, ii. 309, 310
in Ireland, ii. 329
Kett's, Norfolk, ii. 324
Kyre Park, grove at, ii. 311-313, Plates 86 and 87
at Longleat, ii. 315
Marriage, ii. 326
in Norfolk, ii. 324
Nunupton, ii. 314
Porter, ii. 322
at Powis Castle, ii. 308, 309, Pl. 83
" " champion, ii. 309, Pl. 82
" " Lady Powis', ii. 309, Pl. 84
in Scotland, ii. 328
Shakespeare's, ii. 311
in Sherwood Forest, ii. 307, 322
" " Major Oak, ii. 317, 322, Pl. 95
Simon Foster's, ii. 322
in Somersetshire, ii. 314
in Staffordshire, ii. 318
Strutt's, ii. 327
at Tortworth, ii. 287
" leaves, ii. 287, Pl. 79, Fig. 2
Umbrella, at Castlehill, ii. 325, Pl. 97
at Vaynor Park, ii. 309
Wallace's, ii. 328
in Warwickshire, ii. 311
Oak, Common, remarkable trees—*continued*
at Whitfield, ii. 311, Pl. 85
at Windsor, ii. 319
in Wistman's Wood, ii. 287, 307, 326
in Worcestershire, ii. 314
in Yorkshire, ii. 325
" " remarkable trees abroad, ii. 330
" " seedling, ii. 283
" " Thornbury, self-sown tree at, ii. 300, Pl. 81
" " timber, ii. 335
" " transplantation, ii. 299, 301
" " varieties, ii. 284
" Cork, v. **1292.** *See* Quercus Suber
" Cypress, ii. **284**
" " Melbury, tree at, ii. 284, Pl. 80
" Durmast. *See* Oak, Sessile
" Fastigiate. *See* Oak, Cypress
" Fern-leaved, ii. **285**
" Fulham, v. **1262.** *See* Quercus Lucombeana, var. fulhamensis
" galls, ii. 333 note 2
" Golden, ii. **285**
" Holm, v. **1281.** *See* Quercus Ilex
" " etymology, v. 1285
" Hungarian, v. **1316.** *See* Quercus conferta
" Ilex, v. **1281.** *See* Quercus Ilex
" Kermes, v. **1279.** *See* Quercus coccifera
" Lucombe, v. **1259.** *See* Quercus Lucombeana
" Mediterranean species, cultivation of, v. 1227
" Overcup, v. **1303.** *See* Quercus lyrata
" Pedunculate, ii. **282**
" Pin, v. **1250.** *See* Quercus palustris
" pollard, ii. 326, 339
" Portuguese, v. **1322.** *See* Quercus lusitanica
" Pubescent, ii. **294.** *See also* Quercus lanuginosa
" " hybrids, v. 1264, 1316
" " leaves, etc., ii. 294, Pl. 79, Fig. 13
" " varieties, ii. 294
" Purple, ii. **285**
" Pyrenean, v. **1313.** *See* Quercus Toza
" Quercitron, v. **1239.** *See* Quercus velutina
" "Raglan," v. 1258
" Red, v. **1242.** *See* Quercus rubra
" Scarlet, v. **1247.** *See* Quercus coccinea
" Sessile, ii. **291**, 289, 330. *See also* Quercus sessiliflora
" " branchlets and buds, ii. 291, Pl. 78, Fig. 2
" " distribution, ii. 297
" " in France, ii. 331
" " hybrids, v. 1283, 1291, 1314 and note 2, 1316; vii. 1852 note 2
" " leaves, ii. 291, Pl. 79, Fig. 8
" " Merevale Park, tree at, ii. 318, Pl. 92
" " seedling, ii. 292
" " timber, ii. 289; iv. 852 note 2
" " varieties, ii. 292
" Shingle, v. **1231.** *See* Quercus imbricaria
" Spanish, v. **1237.** *See* Quercus cuneata
" Stalk-cupped. *See* Oak, Common
" Swamp White, v. **1307.** *See* Quercus bicolor

Oak—*continued*
„ Turkey, v. **1254.** *See* Quercus Cerris
„ Turner's, v. **1288.** *See* Quercus Turneri
„ Valonia, v. **1268.** *See* Quercus Ægilops
„ Various-leaved, ii. **285**
„ Wainscot, ii. 342
„ Water, v. **1235.** *See* Quercus nigra
„ Weeping, ii. **284**
„ White, v. **1301.** *See* Quercus alba
„ Willow, v. **1228.** *See* Quercus Phellos
„ with variegated leaves, ii. **286**
„ Yellow, v. **1310.** *See* Quercus Muehlenbergii
Oil of birch, iv. 974, 992
„ of cedar, vi. 1443
„ of juniper, vi. 1408, 1412 note 1, 1443
„ of savin, vi. 1446
„ of winter-green, iv. 992
Olm, Hollander's, vii. 1870
Olmo negro tree, vii. 1908
O-matsu tree, v. 1144
Onara tree, v. 1328
Onko tree, i. 107
Oreodaphne, sub-genus *Umbellularia*, Nees, vi. 1531
Oreodaphne californica, Nees, vi. 1531
Oreoptelea, Spach, vii. 1848
Orme blanc, vii. 1854 note 3
„ Dumont, vii. 1870 note 4, 1871 and note 5
„ gras, in Belgium, vii. 1870 and notes, 1871 note 5
„ „ in Canada, vii. 1862
„ gras de Malines, vii. 1870 note 2
„ maigre, vii. 1894 note 4, 1897
„ Pitteurs, *Morren*, vii. 1873
„ St. Trond, vii. 1873
„ tortillard, vii. 1894 and notes 3 and 4, 1895
Ornus europæa, Persoon, iv. 887
„ *floribunda*, A. Dietrich, iv. 890
Osier blanc, vii. 1814 note 7
„ White Welsh, vii. 1755 note 1
Ostrya, Scopoli, iii. **540**
„ key to species, iii. 526
Ostrya carpinifolia, *Scopoli*, iii. **540**, 526, 544
„ „ cultivation, iii. 541
„ „ Langley Park, tree at, iii. 542, Pl. 153
„ „ leaves, iii. 526, 541, Pl. 201, Fig. 11
„ „ remarkable trees, iii. 542
„ *italica*, Spach, iii. 540
„ „ sub-species *carpinifolia*, Winkler, iii. 540
„ „ „ *virginiana*, Winkler, iii. 543, 544
„ japonica, *Sargent*, iii. **544**, 527
„ „ leaves, iii. 527, 544, Pl. 201, Fig. 10
„ Knowltoni, *Coville*, iii. 540
„ *mandschurica*, Budischtschew, iii. 544
„ *Ostrya*, Macmillan, iii. 543
„ „ Karsten, iii. 540; Errata, 1939
„ *virginiana*, Koch, iii. 543
„ *virginica*, Maximowicz, iii. 544
Ostrya—*continued*
„ virginica, *Willdenow*, iii. **543**, 527
„ „ leaves, iii. 527, 543, Pl. 201, Fig. 9
„ „ var. eglandulosa, iii. **543**
„ „ glandulosa, iii. **543**
„ *vulgaris*, Willdenow, iii. 540
Oxel tree, i. 161
Oxyacantha, Medicus, vii. 1731

Padus cornuta, Carrière, vi. 1544
„ *eglandulosa*, Moench, vi. 1553
„ *eximia*, Small, vi. 1546 note 2
„ *Laurocerasus*, Miller, vi. 1551
„ *lusitanica*, Miller, vi. 1553
„ *Mahaleb*, Borkhausen, vi. 1542
„ *racemosa*, Schneider, vi. 1543
„ *serotina*, Agardh, vi. 1546
„ *vulgaris*, Borkhausen, vi. 1543
Pai-kuo-sung tree, v. 1051
Pai-li tree, vi. 1556 note 2
Pai-sung tree, v. 1051
Pai-yang tree, vii. 1786
Palm, Chusan, vii. **1690.** *See* Trachycarpus Fortunei
Panax, sub-genus *Acanthopanax*, Decaisne and Planchon, vii. 1694
Panax ricinifolium, Siebold and Zuccarini, vii. 1694
Pan-li tree, iv. 855
Pao-t'ung tree, vi. 1494 note 1
Parasol de St. Julien, vii. 1791
Pasania, Oersted, v. 1215
Pasania cuspidata, Oersted, v. 1332
„ *densiflora*, Oersted, v. 1331
„ *glabra*, Oersted, v. 1332
Paulownia, Siebold and Zuccarini, vi. **1492**
Paulownia Duclouxii, *Dode*, vi. **1493**
„ *Fargesii*, Franchet, vi. 1493
„ Fortunei, *Hemsley*, vi. **1492**
„ *imperialis*, Siebold and Zuccarini, vi. 1493
„ meridionalis, *Dode*, vi. 1493 note 1
„ tomentosa, *Koch*, vi. **1493**
„ „ timber, vi. 1495
„ „ var. Fargesii, vi. **1493**
Pavame tree, iii. 519
Pavia, Boerhave, ii. 206
Pavia flava, Moench, ii. 224
„ *indica*, Wallich, ii. 219
„ *macrostachya*, Loiseleur, ii. 208
„ *rubra*, Hort., ii. 225
Pavonia, Ruiz and Pavon, vii. 1700
Pavonia sempervirens, Ruiz and Pavon, vii. 1700
Pear, Barland, vi. 1564
„ Chaumontel, vi. 1565
„ Common, vi. **1560.** *See* Pyrus communis
„ Golden Knap, vi. 1565
„ Hufcap, vi. 1564
„ Manchurian, vi. 1556 note
„ Snow, vi. 1559
Pecan Nut, iii. **599.** *See* Carya olivæformis
Peh tree, i. 199; v. 1164
Pehuen tree, i. 44

Pepperidge, iii. 509. *See* Nyssa sylvatica
Peppermint, Black, vi. 1623
„ Mountain, vi. 1635. *See* Eucalyptus coccifera
Peridermium pini, etc. *See* Fungi
Peronospora. *See* Fungi
"Perpignans," iv. 927
Persimmon, American, iv. 996. *See* Diospyros virginiana
„ Chinese, iv. 994
Pestalozzia funerea. *See* Fungi
Peuplier blanc de Hollande, vii. 1780
„ Bujot, vii. 1825
„ de Canada, vii. 1807 note 4, 1814, 1815
„ de Caroline, vii. 1815
„ de Virginie, vii. 1807 note 4, 1815, 1828 note 3
„ *Eugène*, Carrière, vii. 1826
„ *régénéré*, Carrière, vii. 1817 note 1, 1823, 1824
„ Suisse, vii. 1807 note 4, 1814, 1815
„ „ blanc, vii. 1825
„ „ rouge, vii. 1825
Peziza Willkommii. *See* Fungi
Physalospora gregaria. *See* Fungi
Picea, D. Don, iv. 713
Picea, Link, i. 75
„ section Eu-Picea, vi. 1335; i. 76
„ „ „ key to, vi. 1335
„ „ Omorica, i. 76
„ „ „ key to, i. 76
Picea *Abies*, Karsten, vi. 1337
„ *acicularis*, Beissner, vi. 1372
„ *acutissima*, Jack, vi. 1377
„ ajanensis, *Fischer*, i. 85, 76, 80, 89, 90, 92
„ „ distribution, i. 85
„ „ identification, i. 89
„ „ introduction, i. 86
„ „ Japanese name, i. 87
„ „ timber, i. 87
„ „ var. *microsperma*, i. 85, 86 note 4
„ *ajanensis*, Hooker, i. 89
„ alba, *Link*, vi. 1380; i. 96; vi. 1336
„ „ cultivation, vi. 1382
„ „ distribution, vi. 1382
„ „ timber, vi. 1383
„ „ varieties, vi. 1381
„ „ var. arctica, vi. 1381
„ „ cœrulea, vi. 1382
„ „ nana, vi. 1381
„ *alba*, Mayr, vi. 1385
„ albertiana, *Stewardson Brown*, vi. 1385, 1336
„ *Alcockiana*, Carrière, i. 77 note, 87, 89, 90; vi. 1372
„ „ var. *morindoides*, vi. 1392
„ *alpestris*, Stein, vi. 1360
„ *amabilis*, Loudon, iv. 782
„ australis, *Small*, vi. 1378
„ *balsamea*, Loudon, iv. 803
„ bicolor, *Mayr*, vi. 1372, 1336; i. 90
„ „ distribution, vi. 1373
„ „ history, vi. 1372
„ *bifolia*, Murray, iv. 800
Picea—*continued*
„ *brachyphylla*, Gordon, iv. 765
„ brachytila, *Masters*, i. 85
„ *bracteata*, Loudon, iv. 796
„ *brevifolia*, Peck, vi. 1375
„ Breweriana, *Watson*, i. 82, 76, 77; vi. 1340 note 2
„ „ in America, i. 82, Pl. 29
„ „ timber, i. 84
„ *canadensis*, Britton, Sterns, and Poggenburg, vi. 1380
„ „ var. *glauca*, vi. 1382
„ *canadensis*, Link, ii. 239
„ *cephalonica*, Loudon, iv. 739
„ *cilicica*, Gordon, iv. 744
„ *cærulea*, Link, vi. 1382
„ *columbiana*, Lemmon, vi. 1385 note 1, 1387, 1388
„ „ Rydberg, vi. 1385
„ *concolor*, Gordon, iv. 777
„ „ var. *violacea*, iv. 777, 778
„ *Douglasii*, Link, iv. 814
„ *ellipsoconis*, Borbas, vi. 1344 note 7
„ Engelmanni, *Engelmann*, vi. 1387; iii. 698; vi. 1337
„ „ distribution, vi. 1388
„ „ var. argentea, vi. 1387
„ „ Fendleri, vi. 1387
„ „ *glauca*, vi. 1387, 1390
„ „ microphylla, vi. 1387
„ excelsa, *Link*, vi. 1337, 1336
„ „ Coombe plantation, vi. 1352
„ „ cultivation, vi. 1351
„ „ decay at the heart, vi. 1358
„ „ distribution, vi. 1345
„ „ Durris estate, plantation, vi. 1352
„ „ dwarf forms, vi. 1343-1344
„ „ fossil, vi. 1351
„ „ Glenshiskin Wood, vi. 1356
„ „ Gwydyr Castle, tree at, vi. 1355, Pl. 343
„ „ in America, vi. 1353, Pl. 340
„ „ Kilworth, Ireland, trees at, vi. 1356, Pl. 344
„ „ layering, vi. 1355
„ „ Oakley Park, avenue at, vi. 1354, Pl. 342
„ „ remarkable forms, vi. 1348
„ „ remarkable trees, vi. 1353
„ „ Studley, trees at, vi. 1354, Pl. 341
„ „ timber, vi. 1357
„ „ var. acuminata, vi. 1339
„ „ *alpestris*, vi. 1360
„ „ argenteo-spica, vi. 1344
„ „ aurea, vi. 1344
„ „ chlorocarpa, vi. 1339
„ „ Clanbrassiliana, vi. 1343, 1348
„ „ columnaris, vi. 1341
„ „ corticata, vi. 1344
„ „ *denudata*, vi. 1342
„ „ *echiniformis*, iii. 594 note 3
„ „ eremita, vi. 1341
„ „ erythrocarpa, vi. 1339
„ „ europæa, vi. 1339

Picea excelsa, *Link—continued*
„ „ var. *fennica*, vi. 1360
„ „ finedonensis, vi. **1344**
„ „ globosa, vi. **1343**
„ „ Gregoryana, vi. 1343
„ „ *inversa*, vi. 1340 note 13
„ „ *inverta*, vi. 1340, 1348
„ „ Maxwelli, vi. 1343
„ „ *medioxima*, vi. 1360
„ „ *monocaulis*, vi. 1342
„ „ monstrosa, vi. **1342**
„ „ *montana*, vi. 1339
„ „ mutabilis, vi. **1344**
„ „ nana, vi. 1348
„ „ *obovata*, vi. 1359
„ „ pendula, vi. **1340**
„ „ pumila, vi. 1343
„ „ pygmæa, vi. 1343
„ „ pyramidata, vi. **1341**
„ „ Remonti, vi. **1341**
„ „ *stricta*, vi. 1341
„ „ strigosa, vi. **1341**
„ „ tabulæformis, vi. **1343**
„ „ triloba, vi. **1339**
„ „ tuberculata, vi. **1344**
„ „ variegata, vi. **1344**
„ „ viminalis, vi. **1339**
„ „ virgata, vi. **1342**, 1348
„ „ Wellesley, Mass., tree at, vi. 1353, Pl. 340
„ „ witches' broom on, vi. 1345
„ *firma*, Gordon, iv. 762
„ *Fortuni*, Murray, vi. 1474
„ *Fraseri*, Loudon, iv. 806
„ *glauca*, Voss, vi. 1380 note 1
„ Glehnii, *Masters*, vi. **1369**; i. 86, 87; vi. 1336
„ „ cultivation, vi. 1370
„ „ distribution, vi. 1369
„ *grandis*, Loudon, iv. 773
„ *hirtella*, Loudon, iv. 808
„ hondoensis, *Mayr*, i. **89**, 76, 85 note 1, 87
„ „ distribution, i. 90
„ „ identification, i. 89
„ „ introduction, i. 90
„ „ varieties. *See* Errata, 1942
„ *japonica*, Regel, vi. 1372
„ *jezoensis*, Carrière, i. 85; Errata, 1936
„ *Khutrow*, Carrière, vi. 1366
„ Koyamai, *Shirasawa*. *See* Errata, 1942
„ *lasiocarpa*, Murray, iv. 800
„ *laxa*, Sargent, vi. 1380
„ *Lowiana*, Gordon, iv. 779, 780
„ *magnifica*, Gordon, iv. 792
„ *Mariana*, Britton, Sterns, and Poggenburg, vi. 1375
„ *Mastersii*, Mayr, vi. 1365
„ Maximowiczii, *Regel*, vi. **1374**, 1335; Errata, 1942
„ *Menziesii*, Carrière, i. 92
„ „ Engelmann, vi. 1389
„ *Morinda*, Link, i. 76, 77 note; ii. 441; vi. 1366
„ *morindoides*, Rehder, i. 77; vi. 1392, 1393

Picea—*continued*
„ morrisonicola, *Hayata*, vi. 1369 note 1
„ nigra, *Link*, vi. **1375**; i. 96; vi. 1336
„ „ Colesborne, tree at, vi. 1377, Pl. 346
„ „ distribution and cultivation, vi. 1376
„ „ timber, vi. 1383
„ „ var. Doumetii, vi. **1376**
„ „ *rubra*, vi. 1377
„ „ *virgata*, vi. 1378 note 2
„ *nobilis*, Loudon, iv. 786
„ *Nordmanniana*, Loudon, iv. 746
„ *numidica*, Gordon, iv. 737
„ obovata, *Ledebour*, vi. **1359**, 1337, 1341, 1346-1348
„ „ var. alpestris, vi. **1360**
„ „ fennica, vi. **1360**
„ „ *japonica*, vi. 1374
„ „ *Schrenkiana*, vi. 1364
„ Omorika, *Bolle*, i. **78**, 77
„ „ distribution, i. 79
„ „ in Bosnia, i. 80, Pl. 28
„ omorikoides, *Webber*, i. 80
„ orientalis, *Carrière*, vi. **1362**, 1337
„ „ cultivation, vi. 1363
„ „ distribution, vi. 1363
„ „ growths on, iii. 594 note 3
„ „ remarkable trees, vi. 1363
„ *Parryana*, Sargent, vi. 1389
„ *Parsonsiana*, Barron, iv. 779, 780
„ *pectinata*, Loudon, iv. 720
„ *Pichta*, Loudon, iv. 758
„ *Pindrow*, Loudon, iv. 755
„ *Pinsapo*, Loudon, iv. 732
„ polita, *Carrière*, vi. **1370**, 1336; i. 90
„ *pseudopungens*, Dieck, vi. 1387
„ pungens, *Engelmann*, vi. **1389**; iv. 815; vi. 1335
„ „ distribution and cultivation, vi. 1391
„ „ var. argentea, vi. **1390**
„ „ glauca, vi. **1390**
„ „ *glauca pendula*, vi. 1390
„ „ König Albert von Sachsen, vi. **1390**
„ „ *Kosteri pendula*, vi. 1390 note 5
„ „ Kosteriana, vi. **1390**
„ „ prostrata, vi. 1390
„ „ tabuliformis, vi. 1390
„ „ viridis, vi. 1390
„ *religiosa*, Loudon, iv. 808
„ *rubens*, Sargent, vi. 1377
„ *rubra*, Dietrich, vi. 1337, 1377 note 2
„ rubra, *Link*, vi. **1377**, 1336
„ „ cultivation, vi. 1378
„ „ distribution, vi. 1378
„ „ *forma* virgata, vi. 1378 note 2
„ „ timber, vi. 1383
„ „ varieties, vi. 1378
„ Schrenkiana, *Fischer and Meyer*, vi. **1364**, 1335
„ sitchensis, *Carrière*, i. **92**, 76, 80, 83; iii. 480
„ „ Beauport, tree at, i. 96, Pl. 30
„ „ cultivation, i. 94
„ „ distribution, i. 93
„ „ identification, i. 90, 92

Picea sitchensis, *Carrière—continued*
„ „ introduction, i. 94
„ „ remarkable trees, i. 95
„ „ timber, i. 97
„ „ var. speciosa, i. 93
„ *sitkaensis*, Mayr, i. 92
„ Smithiana, *Boissier*, vi. **1366**, 1335
„ „ cultivation, vi. 1367
„ „ Melbury, tree at, vi. 1367, Pl. 345
„ „ Nagkunda, tree near, v. Frontispiece; vi. 1366 note
„ „ timber, vi. 1368
„ spinulosa, *Henry*, vi. **1392**
„ „ Castlewellan, tree at, vi. 1394, Pl. 347
„ *tianschanica*, Ruprecht, vi. 1364
„ *Torano*, Koehne, vi. 1370
„ *Tschonoskii*, Mayr, vi. 1374
„ *Veitchii*, Murray, iv. 768
„ *vulgaris*, Link, vi. 1337
„ „ var. *altaica*, vi. 1359
„ „ *europæa*, vi. 1339
„ „ *uralensis*, vi. 1360
„ *Webbiana*, Loudon, iv. 750
Pign tree, vi. 1361
Pignut, iii. **604.** *See* Carya porcina
Pin de Briançonnais, v. 1133 note 3
Pine, iii. **571**; v. **1001.** *See also* Pinus
„ Aleppo, v. **1099.** *See* Pinus halepensis
„ Alpine, v. **1035.** *See* Pinus Cembra
„ Austrian, ii. **408**; iii. 709; v. **1101.** *See also* Pinus Laricio, var. austriaca
„ „ cultivation, ii. 420
„ „ distribution, ii. 415
„ „ Elveden, tree at, ii. 423, Pl. 118
„ „ hybrids, ii. 416; vii. 1852 note 2
„ „ introduction, ii. 410
„ „ remarkable trees, ii. 423
„ Bishop's, v. **1104.** *See* Pinus muricata
„ Black, v. 1102
„ Bristle-cone, v. **1055.** *See* Pinus aristata
„ Calabrian, ii. **408.** *See also* Pinus Laricio, var. calabrica
„ „ cultivation, ii. 421
„ „ distribution, ii. 414
„ Canary, v. **1096.** *See* Pinus canariensis
„ Carolina, v. 1096
„ Corsican, ii. **408**; v. 1081, 1101. *See also* Pinus Laricio, var. corsicana
„ „ Arley Castle, tree at, ii. 422, Pl. 117
„ „ climate, ii. 412
„ „ cultivation, ii. 418
„ „ distribution, ii. 411
„ „ geographical forms, ii. 408
„ „ Holkham, trees at, ii. 420, 422, Plates 115 and 116
„ „ in Corsica, ii. 413, Frontispiece and Plates 113 and 114
„ „ in Spain. *See* Errata, 1938
„ „ introduction, ii. 410
„ „ remarkable trees, ii. 422
„ „ unharmed by rabbits, ii. 419
„ Coulter's, v. **1067.** *See* Pinus Coulteri
Pine—*continued*
„ Curly Pitch, v. 1093
„ Digger, v. **1069.** *See* Pinus Sabiniana
„ Foxtail, v. **1054**, 1006. *See* Pinus Balfouriana
„ Gerard's, v. **1052.** *See* Pinus Gerardiana
„ Haguenau, iii. **573**, 580
„ Hard, v. **1006**, 1003
„ Herzegovinian, ii. **424.** *See* Pinus leucodermis
„ Himalayan Blue, v. **1011.** *See* Pinus excelsa
„ Huon, v. 1147 note 1
„ Jack, v. **1109.** *See* Pinus Banksiana
„ Japanese Black, v. **1143.** *See* Pinus Thunbergii
„ „ Red, v. **1125.** *See* Pinus densiflora
„ „ White, v. **1033.** *See* Pinus parviflora
„ Jersey, v. **1107.** *See* Pinus virginiana
„ King William, vi. 1450
„ Knob-cone, v. **1077.** *See* Pinus tuberculata
„ Korean, v. **1041.** *See* Pinus koraiensis
„ "Lace-Bark," v. 1050 note 1
„ Loblolly, v. **1094.** *See* Pinus Tæda
„ Lodge-Pole, v. **1135**
„ Long-leaf, v. **1091.** *See* Pinus palustris
„ Macedonian, v. **1014.** *See* Pinus Peuke
„ Maritime, v. **1113.** *See* Pinus Pinaster
„ Mexican, v. **1085.** *See* Pinus patula
„ „ White, v. **1017.** *See* Pinus Ayacahuite
„ Monterey, v. **1079.** *See* Pinus radiata
„ Montezuma, v. **1061.** *See* Pinus Montezumæ
„ Mountain, v. **1127.** *See* Pinus montana
„ North Carolina, v. 1095 note 3
„ Norway, v. 1093, 1140
„ Nut, v. **1006**
„ One-leaf Nut, v. **1056.** *See* Pinus monophylla
„ Oregon, iv. 819
„ Pitch, v. **1091.** *See* Pinus palustris
„ „ Northern, v. **1087.** *See* Pinus rigida
„ Plane-Bark, v. 1005
„ Pond, v. **1090.** *See* Pinus serotina
„ Pyrenean, ii. **409.** *See also* Pinus Laricio, var. tenuifolia
„ „ distribution, ii. 410
„ Red, v. **1140**, 1110. *See* Pinus resinosa
„ „ (Ayacahuite colorado), v. 1018
„ Riga, iii. **573**, 581, 596
„ Rosemary, v. 1095
„ Scots, iii. **571**; v. 1081. *See also* Pinus sylvestris
„ „ Abernethy Forest, iii. 589, Plates 166 and 167
„ „ Ballochbuie Forest, iii. 589, Plates 168 and 169
„ „ Bramshill Park, tree at, iii. 586, Pl. 161
„ „ Carclew, avenue at, iii. 585, Pl. 160
„ „ cultivation, iii. 582
„ „ distribution, iii. 575
„ „ Dunkeld, tree at, iii. 586, Pl. 163
„ „ dwarf forms, iii. 575

Pine, Scots—*continued*
„ „ etymology, iii. 578
„ „ Glen Maillie Forest, iii. 587; vi. Pl. 368
„ „ Glenmore Forest, iii. 588
„ „ Gordon Castle, trees at, iii. 588, Pl. 164
„ „ hybrids, v. 1129; vii. 1852 note 2
„ „ in England, in a wild state, iii. 577
„ „ „ introduction, iii. 578
„ „ „ yield of, iii. 583
„ „ in France, iii. 579, 594, 596
„ „ in Germany, iii. 580, 594
„ „ in Iceland, iii. 581
„ „ in Ireland, iii. 579, 591
„ „ in Norway and Sweden, iii. 580
„ „ in Scotland, iii. 576, 586-591
„ „ in Spain, iii. 580
„ „ in Switzerland, iii. 580
„ „ in the United States, iii. 593
„ „ in Wales, iii. 586
„ „ inosculation, iii. 594
„ „ Inveraray Castle, tree at, iii. 586, Pl. 162
„ „ Invergarry, tree at, iv. Frontispiece
„ „ Les Barres, trees at, iii. 596
„ „ Loch Morlich, tree at, iii. 589, Pl. 165
„ „ natural reproduction, iii. 583
„ „ place names, iii. 578
„ „ propagation, iii. 584
„ „ Rannoch, Black Wood of, iii. 590
„ „ remarkable trees, iii. 585
„ „ timber, iii. 594; v. 1041, 1127, 1142
„ „ varieties, iii. 572
„ „ witches' broom on, iii. 594
„ Scrub, v. **1107**. *See* Pinus virginiana
„ seeds, edible, v. 1038, 1042, 1044, 1046, 1051, 1053, 1057, 1058, 1059, 1067 note 2, 1069, 1122
„ Shore, v. **1135**
„ Short-leaf, v. **1098**. *See* Pinus echinata
„ Soft, v. **1003**.
„ Stone, v. **1119**, 1004. *See* Pinus Pinea
„ Sugar, v. **1020**. *See* Pinus Lambertiana
„ Umbrella, iii. **568**. *See* Sciadopitys verticillata
„ Western White, v. **1022**. *See* Pinus monticola
„ Weymouth, v. **1025**, 1016, 1019. *See* Pinus Strobus
„ White, v. **1025**; iv. 819; v. 1004. *See* Pinus Strobus
„ White-Bark, v. **1048**. *See* Pinus albicaulis
„ Yellow, v. **1071**. *See* Pinus ponderosa
„ „ v. 1033 and note, 1093
Pine-wool, v. 1094
Pino bravo, v. 1116
„ manzo, v. 1116
Piñon tree, i. 44
„ „ four-leaved, v. 1060
PINUS, Linnæus, v. **1001**. *See also* Pine
„ key to species, v. 1003
„ section BALFOURIANÆ, Engelmann, v. **1006**
„ „ BANKSIA, Mayr, v. **1009**
„ „ *CEDRUS*, Parlatore, iii. 451
Pinus—*continued*
„ section CEMBRA, Spach, v. **1004**, 1015
„ „ CEMBROIDES, Engelmann, v. **1006**
„ „ DIPLOXYLON, Koehne, v. **1006**
„ „ GERARDIANÆ, Engelmann, v. **1005**
„ „ HAPLOXYLON, Koehne, v. **1003**
„ „ PINASTER, Mayr, v. **1009**
„ „ PSEUDOSTROBUS, Engelmann, v. **1007**
„ „ STROBUS, Spach, v. **1004**, 1015, 1020
„ „ TÆDA, Mayr, v. **1007**
„ „ *TSUGA*, Endlicher, iv. 811
PINUS (Cedar), Linnæus, iii. 451
„ (Larch), Linnæus, ii. 345
Pinus *Abies*, Du Roi, iv. 720
„ „ Linnæus, vi. 1337
„ „ var. *fennica*, vi. 1360
„ „ *medioxima*, vi. 1360
„ *Abies*, Pallas, vi. 1359
„ *adunca*, Poiret, v. 1079 note 1
„ *alba*, Aiton, vi. 1380
„ „ var. *arctica*, vi. 1381
„ „ *canadensis*, v. 1025
„ albicaulis, *Engelmann*, v. **1048**, 1003, 1005
„ „ distribution, v. 1049
„ „ in Montana, North-Western, v. 1049, Pl. 276
„ „ timber, v. 1049
„ *Alcoquiana*, Parlatore, vi. 1372
„ *alepensis*, Poiret, v. 1099
„ *amabilis*, Douglas, iv. 782
„ „ Parlatore, iv. 792
„ *apacheca*, Lemmon, v. 1072 note 2, 1074
„ *apulcensis*, Lindley, v. 1064
„ *Araragi*, Siebold, ii. 246
„ *araucana*, Molina, i. 44, 46
„ aristata, *Engelmann*, v. **1055**, 1006
„ *arizonica*, Engelmann, v. 1073, 1074
„ Armandi, *Franchet*, v. **1043**, 1005, 1042
„ „ var. *Mastersiana*, v. 1043, 1044
„ *armena*, Koch, iii. 576 note 2; v. 1130 note 2
„ *ascarena*, Gordon, v. 1114 note 3
„ *atlantica*, Endlicher, iii. 469
„ *attenuata*, Lemmon, v. 1077
„ *australis*, Michaux, v. 1091
„ *austriaca*, Höss, ii. 407, 408, 417
„ Ayacahuite, *Ehrenberg*, v. **1017**, 1004, 1047
„ „ cultivation, v. 1018
„ „ distribution, v. 1018
„ „ varieties, v. 1017
„ „ var. brachyptera, v. **1018**
„ „ Veitchii, v. **1017**, 1018 and note 1, 1019
„ Balfouriana, *Balfour*, v. **1054**, 1006
„ „ in Sierra Nevada Mountains, v. 1054, Pl. 277
„ „ var. *aristata*, v. 1055
„ *balsamea*, Linnæus, iv. 803
„ Banksiana, *Lambert*, v. **1109**, 1009, 1027, 1136
„ „ cultivation, v. 1112
„ „ in Minnesota, v. 1111, Pl. 289
„ „ timber, v. 1111

Pinus—*continued*
„ *Beardsleyi*, Murray, v. 1071
„ *Benthamiana*, Hartweg, v. 1071, 1075
„ *bifida*, Antoine, iv. 762
„ *Bolanderi*, Parlatore, v. 1134, 1139
„ *Bonapartea*, Roezl, v. 1017, 1018
„ *Boursieri*, Carrière, v. 1134
„ *brachyphylla*, Parlatore, iv. 765
„ *brachyptera*, Engelmann, v. 1071
„ *bracteata*, Don, iv. 796
„ *Brunoniana*, Wallich, ii. 244
„ *Brutia*, Tenore, ii. 407 note 2; v. 1100, 1102, 1103
„ Bungeana, *Zuccarini*, v. **1050**, 1003, 1005
„ *calabrica*, Hort., ii. 407
„ *californiana*, Loiseleur, v. 1078 note 2
„ *californica*, Hartweg, v. 1077
„ *canadensis*, Du Roi, vi. 1380
„ „ Linnæus, ii. 239
„ canariensis, *Ch. Smith*, v. **1096**, 1009
„ „ Spanish name, v. 1097
„ „ timber, v. 1097
„ *caramanica*, Bosc, ii. 407
„ caribæa, v. 1093, 1096
„ *cebennensis*, Hort., ii. 407
„ *Cedrus*, Linnæus, iii. 453
„ „ var. *atlantica*, iii. 469
„ Cembra, *Linnæus*, v. **1035**; i. 96; v. 1003, 1005, 1025, 1041 and note 3
„ „ cultivation, v. 1039
„ „ distribution, v. 1036
„ „ in England, v. 1039
„ „ in Ireland, v. 1040
„ „ in Norway, v. 1040
„ „ in Scotland, v. 1040
„ „ in the Swiss Alps, v. 1037, Pl. 275
„ „ remarkable trees, v. 1039
„ „ timber, v. 1040, 1042
„ „ var. aurea, v. 1036
„ „ helvetica, v. 1036
„ „ *pumila*, v. 1036, 1045
„ „ *pygmæa*, v. 1045
„ „ sibirica, v. **1036**
„ cembroides, *Zuccarini*, v. **1059**, 1003, 1006
„ „ var. *edulis*, v. 1058
„ „ *monophylla*, v. 1056
„ „ *Parryana*, v. 1060
„ *cephalonica*, Endlicher, iv. 739
„ chihuahuana, v. 1002 note 5
„ *Chilghoza*, Elphinstone, v. 1052 note 1
„ *cilicica*, Kotschy, iv. 744
„ clausa, *Sargent*, v. 1108 note 2
„ *commutata*, Parlatore, vi. 1387
„ *concolor*, Engelmann, iv. 777, 778
„ contorta, *Loudon*, v. **1134**, 1010, 1078, 1105 and note 1
„ „ cultivation, v. 1138
„ „ history, v. 1138
„ „ Merton Hall, tree at, v. 1139, Pl. 292
„ „ timber, v. 1139
„ „ typical variety, v. **1135**, 1136, 1138, 1139
„ „ var. *latifolia*, v. 1136

Pinus contorta, *Loudon*—*continued*
„ „ var. Murrayana, v. **1135**, 1136, 1137, 1138
„ „ „ Rocky Mountain form, v. **1136**
„ „ „ Sierra Nevada form, v. **1136**
„ *contorta*, Newberry, v. 1136
„ Coulteri, *Don*, v. **1067**, 1007, 1069, 1076 note 3
„ „ St. Cross, Hoddesdon, tree at, v. 1068, Pl. 279
„ *Craigana*, Murray, v. 1071
„ *cupressoides*, Molina, iii. 485
„ *dahurica*, Fischer, ii. 379
„ *dalmatica*, Visiani, ii. 407
„ *deflexa*, Torrey, v. 1072
„ densiflora, *Siebold and Zuccarini*, v. **1125**; iii. 571 note; v. 1010, 1143, 1144
„ „ cultivation, v. 1127
„ „ hybrids, v. 1144
„ „ Japanese name, v. 1126
„ „ timber, v. 1127, 1145
„ *Deodara*, Roxburgh, iii. 476
„ *Devoniana*, Lindley, v. 1061
„ *divaricata*, Dumont de Courset, v. 1109
„ *Donnell-Smithii*, Masters, v. 1062
„ *Don Pedri*, Roezl, v. 1017 note 2
„ *Douglasii*, D. Don, iv. 814
„ *dumosa*, D. Don, ii. 244
„ *durangensis*, Roezl, v. 1017 note 1
„ echinata, *Miller*, v. 1098, 1009, 1027, 1093
„ „ distribution, v. 1098
„ „ timber, v. 1095, 1099
„ *Edgariana*, Hartweg, v. 1104, 1105
„ edulis, *Engelmann*, v. **1058**, 1006, 1057
„ *Ehrenbergii*, Endlicher, v. 1062
„ *eldarica*, Medwejew, v. 1100, 1103 note 3
„ *Engelmanni*, Carrière, v. 1073
„ „ Lemmon, v. 1072
„ „ Torrey, v. 1071
„ *Escarena*, Risso, v. 1114 and note 3, 1117 note 2
„ *excelsa*, J. D. Hooker, v. 1014
„ „ Lamarck, vi. 1337
„ excelsa, *Wallich*, v. **1011**, 1004
„ „ cultivation, v. 1012
„ „ distribution, v. 1011
„ „ remarkable trees, v. 1013
„ „ timber, v. 1012
„ „ var. monophylla, v. 1011 note 2
„ „ *Peuce*, v. 1014
„ „ zebrina, v. 1011 note 1
„ *excorticata*, Lindley and Gordon, v. 1050
„ *fastuosa*, Salisbury, v. 1119
„ *Fenzleyi*, Carrière, ii. 407
„ *Fenzlii*, Antoine et Kotschy, ii. 407
„ „ Carrière, ii. 409
„ *filifolia*, Lindley, v. 1061
„ *firma*, Antoine, iv. 762
„ *flexilis*, Balfour, v. 1048
„ flexilis, *James*, v. 1046, 1005, 1049
„ „ cultivation, v. 1047

Pinus flexilis, *James—continued*
„ „ distribution, v. 1047
„ „ var. *albicaulis*, v. 1048
„ „ *macrocarpa*, v. 1047 note 2
„ „ reflexa, v. 1047
„ „ *serrulata*, v. 1047 note 1
„ formosana, *Hayata*, v. 1034 note 3
„ *Fortunei*, Parlatore, vi. 1474
„ *Fraseri*, Lambert, iv. 806
„ *Fremontiana*, Endlicher, v. 1056
„ funebris, *Komarov*, v. 1126 note 3, 1144 note 2
„ *Gerardi*, Forbes, v. 1052
„ Gerardiana, *Wallich*, v. **1052**, 1005
„ „ seeds as an article of food, v. 1053
„ *glauca*, Moench, vi. 1380 note 1, 1382
„ *Gordoniana*, Hartweg, v. 1061
„ *grandis*, Don, iv. 782
„ „ Hooker, iv. 773
„ *Grenvilleæ*, Gordon, v. 1061
„ *Griffithii*, M'Clelland, v. 1011
„ „ Parlatore, ii. 388
„ *Grozelieri*, Carrière, v. 1022
„ halepensis, *Miller*, v. **1099**; iii. 468 note 1; v. 1009, 1115, 1154
„ „ cultivation, v. 1103
„ „ distribution, v. 1101
„ „ hybrids, v. 1115
„ „ Margam Park, tree at, v. 1103, Pl. 288
„ „ seedling. *See* Errata, 1939
„ „ Syria, tree in, v. 1102, Pl. 287
„ „ timber, v. 1104
„ „ var. Brutia, v. **1100**, 1102, 1103
„ „ „ in Lycia, v. 1102
„ halepensi-Pinaster, *Saporta*, v. 1115 note 2
„ *hamata*, Roezl, v. 1017 note 2
„ *Hamiltoni*, Tenore, v. 1113, 1114
„ *Harryana*, M'Nab, iv. 764
„ *Hartwegii*, Lindley, v. 1062
„ „ Parlatore, v. 1062
„ *Heldreichii*, Christ, ii. 425
„ Henryi, *Masters*, v. 1126
„ *hierosolymitana*, Duhamel, v. 1099
„ *hirtella*, Humboldt, Bonpland, et Kunth, iv. 808
„ *hispanica*, Cook. *See* Errata, 1938
„ *Hudsoni*, Poiret, v. 1109
„ *Hudsonica*, Parlatore, v. 1109
„ *humilis*, Link, v. 1127
„ *hybrida*, Liljeblad, vi. 1339
„ *inops*, Aiton, v. 1107
„ „ Bentham, v. 1136
„ „ Bongard, v. 1134
„ *insignis*, Douglas, v. 1079
„ *intermedia*, Fischer, ii. 374
„ „ Wangenheim, ii. 392
„ *japonica*, Forbes, v. 1127 note 1
„ *Jeffreyi*, Balfour, v. 1072, 1075 note 2
„ „ var. *peninsularis*, v. 1075 note 1
„ *Kaempferi*, Lambert, ii. 384; vi. 1477 note 2
„ „ Parlatore, vi. 1477
„ *kamtschatika*, Endlicher, ii. 346
„ *Khutrow*, Royle, vi. 1366

Pinus—*continued*
„ *Kochiana*, Klotzsch, iii. 576 note 2; v. 1130 note 2
„ *koraiensis*, Masters, v. 1043
„ koraiensis, *Siebold and Zuccarini*, v. **1041**, 1005, 1038, 1044 notes 1 and 2, 1045 note 1
„ „ cultivation, v. 1043
„ „ distribution, v. 1042
„ „ Japanese name, v. 1042 note 6
„ „ var. variegata, v. **1042**
„ *læta*, Salisbury, ii. 349
„ Lambertiana, *Douglas*, v. **1020**, 1004, 1075 note 2
„ „ cultivation, v. 1021
„ „ distribution, v. 1020
„ „ Eastnor Castle, tree at, v. 1021, Pl. 272
„ „ Shasta County, California, tree in, v. 1021, Pl. 271
„ *lanceolata*, Lambert, iii. 494
„ *lapponica*, Mayr, iii. 573; vi. 1362 note 1
„ *laricina*, Du Roi, ii. 392
„ Laricio, *Poiret*, ii. 407; v. 1010, 1113 note 1, 1140
„ „ var. austriaca, ii. **408**; v. 1094 note 2
„ „ „ distribution, etc. *See* Pine, Austrian
„ „ calabrica, ii. **408**
„ „ „ distribution, etc. *See* Pine, Calabrian
„ „ caramanica, ii. **409**
„ „ *cebennensis*, ii. 409
„ „ corsicana, ii. **408**
„ „ „ distribution, etc. *See* Pine, Corsican
„ „ *Karamana*, ii. 409
„ „ *leucodermis*, ii. 424
„ „ *nigricans*, ii. 408
„ „ *Pallasiana*, ii. **408**, 410, 417, 423
„ „ *Poiretiana*, ii. 408
„ „ *pyrenaiaca*, ii. 409
„ „ tenuifolia, ii. **409**
„ „ „ distribution, etc. *See* Pine, Pyrenean
„ *Larix*, Linnæus, ii. 349
„ „ Pallas, ii. 377
„ „ Thunberg, ii. 384
„ „ var. *americana nigra*, ii. 392
„ *lasiocarpa*, W. J. Hooker, iv. 800
„ *latifolia*, Sargent, v. 1072
„ *laxa*, Ehrhart, vi. 1380
„ *Ledebourii*, Endlicher, ii. 374
„ *leiophylla*, Bentham, v. 1086
„ „ Schiede and Deppe, v. 1086-7, 1002 note 5
„ *Lemoniana*, Bentham, v. 1113, 1114
„ *leptolepis*, Endlicher, ii. 384
„ leucodermis, *Antoine*, ii. **424**, 409; v. 1010
„ „ distribution, ii. 425
„ „ in Bosnia, ii. 425, Pl. 119
„ *Lindleyana*, Gordon, v. 1062
„ *Llaveana*, Schlechtendal, v. 1059 and note

Pinus—*continued*
„ *Loiseleuriana*, Carrière, v. 1100
„ *longifolia*, Salisbury, v. 1091
„ *lophosperma*, Lindley, v. 1065, 1066
„ *Loudoniana*, Gordon, v. 1017
„ *Lowiana*, M'Nab, iv. 779
„ *lutea*, Walter, v. 1091
„ *Macintoshiana*, Lawson, v. 1134, 1138
„ *macrocarpa*, Lindley, v. 1067
„ *macrophylla*, Engelmann, v. 1073, 1074
„ „ Lindley, v. 1061
„ *maderiensis*, Tenore, v. 1119
„ *magnifica*, M'Nab, iv. 792
„ *majellensis*, Schouw, v. 1132 note 1
„ *mandshurica*, Murray, v. 1045
„ „ Ruprecht, v. 1041
„ *Mariana*, Du Roi, vi. 1375
„ *maritima*, Lamarck, v. 1113
„ „ Lambert, v. 1099
„ „ Miller, v. 1113 note 1
„ Massoniana, *Lambert*, v. 1126 note 3
„ „ var. *planiceps*, v. 1126 note 3
„ *Massoniana*, Siebold and Zuccarini, v. 1143
„ *Mastersiana*, Hayata, v. 1043, 1044 note 4
„ *Mayriana*, Sudworth, v. 1072, 1074
„ *Mertensiana*, Bongard, ii. 229
„ *microcarpa*, Lambert, ii. 377, 380, 381, 392
„ *mitis*, Michaux, v. 1098
„ monophylla, *Torrey*, v. **1056**, 1002 note 2, 1006
„ „ seeds used for food, v. 1057, 1067 note 2
„ „ var. *edulis*, v. 1058
„ *monspeliensis*, Salzmann, ii. 407, 409
„ montana, *Miller*, v. **1127**; iii. 574; v. 1010, 1108 note 5
„ „ cultivation, v. 1132
„ „ distribution, v. 1130
„ „ dwarf form, v. 1129, 1131, 1132
„ „ hybrids, v. 1129
„ „ var. *gallica*, v. 1133 note 3
„ „ mughus, v. **1129**, 1131
„ „ pumilio, v. **1129**, 1131, 1132, 1134
„ „ rotundata, v. **1129**
„ „ uncinata, v. **1128**; iii. 574
„ *Montereyensis*, Rauch, v. 1079
„ *Montezumæ*, Gordon, v. 1062
„ Montezumæ, *Lambert*, v. **1061**, 1007, 1064
„ „ bark, v. 1065
„ „ cultivation, v. 1063
„ „ Fota, tree at, v. 1064, Pl. 278
„ „ var. Hartwegii, v. **1062**, 1007, 1063, 1064
„ „ Lindleyi, v. **1062**
„ „ rudis, v. **1062**, 1063, 1064
„ monticola, *Don*, v. **1022**; ii. 398; v. 1004
„ „ cultivation, v. 1024
„ „ distribution, v. 1023
„ „ Murthly Castle, tree at, v. 1025, Pl. 273
„ „ var. porphyrocarpa, v. **1023**
„ *morrisonicola*, Hayata, v. 1034 note 3

Pinus—*continued*
„ *mugus*, Scopoli, v. 1127
„ muricata, *Don*, v. **1104**, 1009
„ *Murrayana*, Balfour, v. 1136
„ „ var. *Sargenti*, v. 1136
„ *Napoleoni*, Simon, v. 1050
„ *Neoza*, Govan, v. 1052 note 1
„ *nepalensis*, De Chambray, v. 1011
„ *nigra*, Arnold, ii. 407, 408
„ „ Solander, vi. 1375
„ *nigricans*, Host, ii. 407, 408
„ *nobilis*, Douglas, iv. 786
„ *Nordmanniana*, Steven, iv. 746
„ *Nuttalli*, Parlatore, ii. 395
„ *obliqua*, Sauter, v. 1127
„ *obovata*, Antoine, vi. 1359
„ „ var. *Schrenkiana*, vi. 1364
„ *occidentalis*, Humboldt, Bonpland, and Kunth, v. 1061, 1062
„ *Omorika*, Pančic, i. 78
„ *oocarpa*, v. 1087 note 2
„ *orientalis*, Ledebour, vi. 1359
„ „ Linnæus, vi. 1362
„ „ var. *longifolia*, vi. 1364
„ *orizabæ*, Gordon, v. 1064
„ *osteosperma*, Engelmann, v. 1059
„ *pallasiana*, Lambert, ii. 407 note 2
„ „ Loudon, ii. 408
„ palustris, *Miller*, v. **1091**, 1003, 1008, 1095
„ „ in America, v. 1091
„ „ in France, v. 1092
„ „ resin, v. 1093, 1096
„ „ timber, v. 1092, 1142
„ *Parolinii*, Visiani, v. 1100
„ Parryana, *Engelmann*, v. **1060**, 1006
„ „ seeds used for food, v. 1067 note 2
„ *Parryana*, Gordon, v. 1071, 1075 note 2
„ parvifolia, *Siebold and Zuccarini*, v. **1033**, 1004
„ „ cultivation, v. 1035
„ „ Japanese names, v. 1034
„ „ Kisogawa, Japan, tree in, v. 1034, Pl. 274
„ „ var. pentaphylla, v. **1033**, 1034, 1035 note 1
„ *Pattoniana*, Parlatore, ii. 229
„ patula, *Schlechtendal et Chamisso*, v. **1085**; iii. 571 note; v. 1008, 1183
„ „ Carclew, tree at, v. 1086, Pl. 285
„ *pectinata*, Lamarck, iv. 720
„ *pendula*, Aiton, ii. 379, 380
„ „ Griffith, v. 1011
„ *pentaphylla*, Mayr, v. 1033, 1034 note 2
„ *persica*, Strangways, v. 1100
„ Peuke, *Griseback*, v. **1014**, 1004
„ „ cultivation, v. 1016
„ „ distribution, v. 1015
„ „ var. *vermiculata*, v. 1015
„ *Picea*, Du Roi, vi. 1337
„ „ Linnæus, iv. 720
„ „ var. *medioxima*, vi. 1360
„ *Pichta*, Endlicher, iv. 758
„ Pinaster, *Aiton*, v. **1113**; ii. 411; v. 1010, 1092

Pinus Pinaster, *Aiton—continued*
„ „ cultivation, v. 1117
„ „ distribution, v. 1115
„ „ Foxley Hall, tree at, v. 1117, Pl. 290
„ „ hybrids, v. 1115
„ „ in Cape Colony, v. 1116
„ „ in England, v. 1117
„ „ in Ireland, v. 1118
„ „ in Scotland, v. 1118
„ „ in the Landes, v. 1115
„ „ resin, v. 1096
„ „ timber, v. 1104, 1118, 1119, 1125
„ „ „ pit props, v. 1118
„ „ „ preferential rate, v. 1119
„ „ var. Aberdoniæ, v. **1114**
„ „ Hamiltoni, v. **1114**
„ „ Lemoniana, v. **1114**
„ „ minor, v. **1114**
„ „ Westwick, trees at, v. 1117
„ *pindica*, Formanek, ii. 407, 409
„ *Pindrow*, Royle, iv. 755
„ Pinea, *Linnæus*, v. **1119**, 1002 note 5, 1003, 1010, 1081 note 2, 1097, 1116
„ „ Covilha, tree near, v. 1121, Pl. 291
„ „ cultivation, v. 1123
„ „ distribution, v. 1120
„ „ fossil species, v. 1123
„ „ in England, v. 1123
„ „ in Ireland, v. 1125
„ „ in Italy, celebrated forest, v. 1122
„ „ in Scotland, v. 1125
„ „ in South Africa, v. 1123
„ „ remarkable trees, v. 1123
„ „ timber, v. 1125
„ „ var. fragilis, v. 1120
„ *Pinsapo*, Antoine, iv. 732
„ „ Parlatore, iv. 737
„ *pithyusa*, Steven, v. 1100, 1103 note 3
„ *Poiretiana*, Hort., ii. 407
„ *polita*, Antoine, vi. 1370
„ *ponderosa*, Engelmann, v. 1072
„ ponderosa, *Lawson*, v. **1071**; ii. 236, 398; iii. 698, 708; iv. 824; v. 1003, 1007, 1092 note 1
„ „ cultivation, v. 1075
„ „ distribution, v. 1073
„ „ history, v. 1073
„ „ Montana, tree in, v. 1074, Pl. 281
„ „ var. arizonica, v. **1073**
„ „ Jeffreyi, v. **1072**, 1008, 1071, 1074, 1075, 1076
„ „ macrophylla, v. **1073**
„ „ Mayriana, v. **1072**
„ „ pendula, v. **1077**
„ „ scopulorum, v. **1072**, 1076
„ *pontica*, Koch, iii. 576 note 2
„ *Popocatepetli*, Roezl, v. 1017 note 2
„ *porphyrocarpa*, Murray, v. 1022, 1023 note 2
„ pseudostrobus, *Lindley*, v. **1064**, 1007
„ „ bark, v. 1065

Pinus pseudostrobus, *Lindley—continued*
„ „ var. apulcensis, v. **1064**, 1065
„ „ tenuifolia, v. **1065**
„ pumila, *Regel*, v. **1045**, 1003, 1005, 1036 note 2, 1038, 1042 note 2
„ „ distribution, v. 1046
„ „ Japanese name, v. 1046
„ „ seeds as an article of diet, v. 1046 and note 3
„ *pumilio*, Haenke, v. 1127
„ pungens, *Lambert*, v. **1106**, 1009
„ *pygmæa*, Fischer, v. 1045
„ *pyrenaica*, Carrière, v. 1100, 1104
„ „ Lapeyrouse, ii. 407 note 2; v. 1100 note 2
„ *quadrifolia*, Parry, v. 1060
„ *quinquefolia*, David, v. 1043
„ radiata, *Don*, v. **1079**, 1008, 1105 and note 1
„ „ cultivation, v. 1081
„ „ distribution, v. 1080
„ „ Goodwood, tree at, v. 1083, Pl. 283
„ „ in England, v. 1081-1083
„ „ in Ireland, v. 1084
„ „ in Madeira, v. 1084
„ „ in New Zealand, v. 1084, 1080 note 7
„ „ in Scotland, v. 1083
„ „ in South Africa, v. 1084
„ „ in the United States, v. 1080, 1084
„ „ Lyndhurst, tree near, v. 1082, Pl. 282
„ „ Muckross, tree at, v. 1084, Pl. 284
„ „ remarkable trees, v. 1082
„ „ timber, v. 1081
„ „ var. aurea, v. **1080**
„ „ binata, v. **1080**
„ „ macrocarpa, v. 1080 note 2
„ *reflexa*, Engelmann, v. 1047
„ *religiosa*, Humboldt, Bonpland, et Kunth, iv. 808, 809
„ resinosa, *Aiton*, v. **1140**, 1003, 1010, 1027, 1093
„ „ cultivation, v. 1142
„ „ distribution, v. 1140
„ „ timber, v. 1110, 1142
„ *resinosa*, Loiseleur, v. 1100
„ *rigensis*, Desfontaines, iii. 573
„ rigida, *Miller*, v. **1087**, 1008, 1027, 1090, 1092, 1093, 1096 note 1
„ „ Arley Castle, tree at, v. 1089, Pl. 286
„ „ cultivation, v. 1089
„ „ distribution, v. 1088
„ „ tapped for resin, v. 1094
„ „ timber, v. 1090
„ „ var. *serotina*, v. 1090
„ *Royleana*, Jamieson, v. 1107
„ *rubra*, Lambert, vi. 1377
„ „ Michaux f., v. 1140
„ „ Miller, vi. 1377 note 3
„ „ var. *violacea*, vi. 1382
„ *rudis*, Endlicher, v. 1062

Pinus—*continued*
„ *rupestris*, Michaux f., v. 1109
„ *Russelliana*, Lindley, v. 1061, 1063
„ Sabiniana, *Douglas*, v. **1069**, 1007, 1067, 1076 note 3
„ „ Ledbury, tree at, v. 1070, Pl. 280
„ „ liquid exudation, v. 1070
„ *Salzmanni*, Dunal, ii. 407, 409
„ *Schrenkiana*, Antoine, vi. 1364
„ *scipioniformis*, Masters, v. 1043
„ *scopulorum*, Lemmon, v. 1072
„ *selenolepis*, Parlatore, iv. 768
„ serotina, *Michaux*, v. **1090**, 1008, 1093 note 3
„ *Shasta*, Carrière, v. 1048
„ *sibirica*, Mayr, v. 1035, 1036
„ „ Turczaninow, iv. 758
„ *Sinclairii*, Hooker et Arnott, v. 1079 and note 2
„ *sitchensis*, Bongard, i. 92
„ *Smithiana*, Wallich, vi. 1366
„ *spectabilis*, D. Don, iv. 750
„ *spinulosa*, Griffith, vi. 1392
„ *squarrosa*, Walter, v. 1098
„ *strobiformis*, Engelmann, v. 1018, 1047 note 4
„ „ Sudworth, v. 1047
„ Strobus, *Linnæus*, v. **1025**; iv. 819; v. 1003, 1004, 1024, 1088, 1093, 1141
„ „ cultivation, v. 1028
„ „ distribution, v. 1026
„ „ history, v. 1028
„ „ in Belgium, v. 1030
„ „ in England, v. 1030
„ „ in Germany, v. 1029
„ „ in Ireland, v. 1032
„ „ in Scotland, v. 1031
„ „ in Wales, v. 1031
„ „ remarkable trees, v. 1030
„ „ reproductive power, v. 1028
„ „ timber, v. 1029, 1032, 1042, 1095, 1099, 1110, 1141, 1142
„ „ var. aurea, v. **1026**
„ „ monophylla, v. **1026**
„ „ *monticola*, v. 1022
„ „ nana, v. **1026**
„ „ nivea, v. **1026**
„ „ variegata, v. **1026**
„ „ zebrina, v. **1026**
„ sylvestris, *Linnæus*, iii. **571**; v. 1010, 1116, 1127, 1129, 1130, 1133
„ „ distribution, etc. *See* Pine, Scots
„ „ var. argentea, iii. **575**
„ „ aurea, iii. **575**
„ „ *divaricata*, v. 1109
„ „ engadinensis, iii. **573**, 574; vi. 1362 note 1
„ „ genuina, iii. **573**
„ „ globosa, iii. **575**
„ „ Haguenensis, iii. **573**
„ „ hamata, v. 1130 note 2
„ „ lapponica, iii. **573**

Pinus sylvestris, *Linnæus—continued*
„ „ var. *maritima*, ii. 410
„ „ microphylla, iii. **575**
„ „ monophylla, iii. **575**; v. 1056 note 2
„ „ nana, iii. **575**
„ „ nevadensis, iii. **574**
„ „ *norvegica*, v. 1140
„ „ pendula, iii. **575**
„ „ pumila, iii. **575**
„ „ pyramidalis, iii. **575**
„ „ reflexa, iii. **574**
„ „ rigensis, iii. **573**
„ „ scotica, iii. **573**
„ „ uralensis, iii. **574**
„ „ variegata, iii. **575**
„ „ virgata, iii. **574**
„ *syrtica*, Thore, v. 1113
„ Taeda, *Linnæus*, v. **1094**, 1009, 1093 and note 3
„ „ distribution, v. 1094, 1098
„ „ timber, v. 1095, 1099 note 1
„ „ var. *A*, v. 1087
„ „ *echinata*, v. 1098
„ „ *rigida*, v. 1087
„ „ *variabilis*, v. 1098
„ *Tamrac*, A. Murray, v. 1136
„ *taurica*, Loddiges, ii. 407
„ *taxifolia*, Lambert, iv. 814
„ *tenuifolia*, Bentham, v. 1065
„ „ Salisbury, v. 1025
„ *tenuis*, Lemmon, v. 1136
„ Teocote, *Schlechtendal et Chamisso*, v. **1086**, 1008
„ „ etymology, v. 1086 note 2
„ „ var. macrocarpa, v. **1086**
„ Thunbergii, *Parlatore*, v. **1143**, 1010, 1126 note 5
„ „ cultivation, v. 1145
„ „ distribution, v. 1144
„ „ hybrids, v. 1144
„ „ timber, v. 1144
„ „ var. aurea, v. **1143**
„ „ monophylla, v. **1143**
„ „ variegata, v. **1144**
„ Torreyana, *Parry*, v. **1065**, 1007
„ „ distribution, v. 1066
„ *Tschugatskoi*, v. 1197 note 2
„ *tuberculata*, Don, v. 1079
„ tuberculata, *Gordon*, v. **1077**, 1008, 1113 note 3
„ *uliginosa*, Neumann, v. 1127
„ *uncinata*, Ramond, v. 1127
„ *variabilis*, Lambert, v. 1098, 1099
„ *Veitchii*, Roezl, v. 1017
„ *venusta*, Douglas, iv. 796, 797
„ *viminalis*, Sparrman, vi. 1339
„ virginiana, *Miller*, v. **1107**, 1009
„ „ var. *echinata*, v. 1098
„ *Webbiana*, Wallich, iv. 750, 751 note
„ *Wincesteriana*, Gordon, v. 1061
Plane, iii. **611**. *See also* Platanus
„ American. *See* Plane, Western
„ fossil species, iii 612

Plane—*continued*
„ London, iii. **616.** *See also* Platanus orientalis, var. acerifolia
„ „ Albury, tree at, iii. 625, Pl. 178
„ „ disease, iii. 618
„ „ history, iii. 619; Errata, 1940
„ „ in England, iii. 624
„ „ in Ireland, iii. 626
„ „ in Scotland, iii. 626
„ „ in Wales, iii. 626
„ „ leaves, iii. 616, Pl. 204, Fig. 1
„ „ remarkable trees, iii. 624
„ „ various forms, iii. 616
„ Maple-leaved. *See* Plane, London
„ Oriental, iii. **614.** *See also* Platanus orientalis
„ „ Arabic name, iii. 617
„ „ Corsham Court, tree at, iii. 622, Pl. 175
„ „ cultivation, iii. 620
„ „ distribution, iii. 617
„ „ Ely, tree at, iii. 621, Pl. 174
„ „ history, iii. 619
„ „ in Crete, evergreen, iii. 617
„ „ in Eastern Europe, iii. 623
„ „ in England, iii. 621
„ „ in Ireland, iii. 623
„ „ in Scotland, iii. 623
„ „ in Syria, iii. Pl. 176 B
„ „ remarkable trees, iii. 621
„ „ timber, iii. 626
„ „ varieties, iii. 615
„ „ Weston Park, tree at, vi. Pl. 367
„ Western, iii. **627**, 618. *See also* Platanus occidentalis
„ „ cultivation, iii. 628
„ „ distribution, iii. 627
„ „ history, iii. 619
„ „ in America, iii. Pl. 176 A
„ „ largest in N. America, iii. 628
„ „ leaves, iii. 627, Pl. 204, Fig. 2
PLANERA, Gmelin, sub-genus *ABELICEA*, Planchon, iv. 914
Planera *acuminata*, Lindley, iv. 920
„ aquatica, *Gmelin*, iv. 917 note 3
„ *carpinifolia*, Watson, iv. 915
„ *crenata*, Desfontaines, iv. 915
„ *japonica*, Miquel, iv. 920
„ *Keaki*, Koch, iv. 920
„ *parvifolia*, Sweet, vii. 1928
„ *Richardii*, Michaux, iv. 915
Plants, Miscellaneous, and Witches' Brooms—
Arceuthobium occidentale, v. 1075 note 3, 1080 note 9
„ oxycedri, v. 1075 note 3; vi. 1410
Cœlogyne ochracea, i. 106
Cypripedium Calceolus, i. 121; iii. 581
Echinopanax horridum, iv. 956 note
Goodyera repens, iii. 577 note 2
Lathræa squamaria, vii. 1806
Loranthus europæus, v. 1269
„ tetrandus, vii. 1801 note 5
Plants, Miscellaneous, and Witches' Brooms—*cont.*
Mistletoe, on Black Walnut, ii. 268
„ on Chestnut, in Italy, iv. 843
„ on Lime, vii. 1672
„ on Monterey Pine, v. 1080 note 9
„ on Norway Maple, iii. 658
„ on Oak, ii. 331 note 2, 333; v. 1269
„ on Poplars, vii. 1820
„ on Silver Fir, iv. 726
„ on Whitethorn, vii. 1738
Myzodendron linearifolium, iii. 555
„ oblongifolium, iii. 555 note
„ punctulatum, iii. 555 note
Polypodium falcatum, iv. 956 note
Reseda Luteola, v. 1240 note 2
Tillandsia usneoides, i. 178
Viscum album. *See* Mistletoe *above*
„ laxum, iv. 843
Vitis Coignetiæ, i. 133
Wistaria, i. 133
Witches' Broom, on Birch, iv. 963
„ „ on Elm, vii. 1899
„ „ on Larch, vi. Pl. 369
„ „ on Lawson Cypress, iii. 594 note
„ „ on Scots Pine, iii. 594
„ „ on Silver Fir, iv. 725
„ „ on Spruce, iii. 594 note; vi. 1345
„ „ on Whitethorn, vii. 1734
„ „ on White Willow, vii. 1761
PLATANUS, Linnæus, iii. **611.** *See also* Plane
„ key to species, iii. 612
Platanus *acerifolia*, Willdenow, iii. 614, 616; Errata, 1940
„ *aceris folio*, Miller, iii. 619
„ *cuneata*, Willdenow, iii. 614, 615
„ *digitata*, Gordon, iii. 614, 616
„ glabrata, *Fernald*, iii. 612 note 3
„ *hispanica*, Tenore, iii. 614
„ *hybrida*, Brotero, iii. 627
„ *laciniata*, Dumont de Courset, iii. 614
„ Lindeniana, *Martens et Galeotti*, iii. **613**
„ *lobata*, Moench, iii. 627
„ mexicana, *Moricand*, iii. **613**
„ occidentalis, *Linnæus*, iii. **627**, 612, 616, 619
„ „ distribution, etc. *See* Plane, Western
„ *occidentalis*, Miller, iii. 619
„ orientalis, *Linnæus*, iii. **614**, 612
„ „ distribution, etc. *See* Plane, Oriental
„ „ var. acerifolia, iii. **616**, 614 note 1, 618, 619, 624
„ „ „ history, etc. *See* Plane, London
„ „ „ kelseyana, iii. **616**
„ „ „ pyramidalis, iii. **616**
„ „ „ Suttneri, iii. **616**
„ „ *argenteo-variegata*, iii. 616
„ „ *californica*, iii. 616
„ „ cuneata, iii. **615**, 618
„ „ „ leaves, iii. 615, Pl. 204, Fig. 3

Platanus orientalis—*continued*
„ „ var. digitata, iii. **616**
„ „ insularis, iii. **615**, 619
„ „ *liquidambarifolia*, iii. 615 note 1
„ „ typica, iii. **615**, 616, 621, 626
„ „ „ leaves, iii. 615, Pl. 204, Fig. 4
„ „ *undulata*, iii. 615
„ „ *vera*, iii. 619
„ *palmata*, Moench, iii. 614
„ racemosa, *Nuttall*, iii. **613**
„ *vulgaris*, Spach, iii. 614
„ „ var. *angulosa*, iii. 627
„ Wrightii, *Watson*, iii. **613**
Podocarpus, vi. 1459
Podocarpus argotænia, *Hance*, vi. 1468 note 4
„ *koriana*, Siebold, vi. 1471
„ *nucifera*, Persoon, vi. 1463
„ *sutchuenensis*, Franchet, vi. 1475
Poh or Peh tree, i. 199; v. 1164
Polypodium falcatum. *See* Plants, Miscellaneous
Polyporus. *See* Fungi
Poplar, vii. **1770**. *See also* Populus
„ Balsam, vii. **1832**, 1774. *See* Populus balsamifera
„ Black, vii. **1795**, 1772. *See also* Populus nigra
„ „ distribution, vii. 1802
„ „ hybrids, vii. 1773, 1814
„ „ leaves, vii. 1797, Pl. 409, Fig. 12
„ „ remarkable trees, vii. 1804
„ „ timber, vii. 1823, 1824
„ „ varieties, vii. 1796
„ Black Italian, vii. **1816**. *See also* Populus serotina
„ „ „ Belgium, trees in, vii. 1817, Pl. 385
„ „ „ Belton, tree at, vii. 1821, Pl. 386
„ „ „ cultivation, vii. 1818
„ „ „ leaves, vii. 1811 note 2, 1816, Pl. 409, Fig. 16
„ „ „ remarkable trees, vii. 1820
„ „ „ timber, vii. **1822**, 1785, 1824
„ „ „ varieties, vii. 1817
„ "blistered," i. 74. *See* Liriodendron Tulipifera
„ Canadian Black, vii. **1807**. *See also* Populus monilifera
„ „ „ distribution, vii. 1808
„ „ „ history, vii. 1814
„ „ „ hybrids, vii. 1773, 1814
„ „ „ leaves, vii. 1807, Pl. 409, Fig. 14
„ „ „ timber, vii. 1810
„ „ „ variety, vii. 1808
„ Carolina, vii. **1810**. *See also* Populus angulata
„ „ Danny Park, tree at, and ground plan, vii. 1812, 1813, Pl. 384
„ „ distribution, vii. 1808
„ „ history, vii. 1814
„ „ hybrids, vii. 1773, 1814
Poplar, Carolina—*continued*
„ „ leaves, vii. 1810, 1811 note 2, Pl. 409, Fig. 15
„ „ remarkable trees, vii. 1812
„ „ varieties, vii. 1811
„ Continental Black, vii. **1796**. *See* Populus nigra, var. typica
„ English Black, vii. **1796**. *See* Populus nigra, var. betulifolia
„ "Eucalyptus," vii. 1825
„ Grey, vii. **1780**. *See also* Populus canescens
„ „ Colesborne, tree at, vii. 1784, Pl. 382
„ „ hybrid, vii. 1782
„ „ leaves, vii. 1781, Pl. 408, Fig. 3
„ „ remarkable trees, vii. 1784
„ „ timber, vii. 1785, 1823, 1824
„ hybrids, vii. **1814**, 1773, 1775 note 2
„ Lombardy, vii. **1798**, 1773. *See* Populus nigra, var. italica
„ Ontario, vii. **1834**. *See* Populus candicans
„ raising from seed, vii. 1776
„ White, vii. **1777**, 1772. *See also* Populus alba
„ „ distribution, vii. 1779
„ „ hybrids, vii. 1782 note 4
„ „ leaves, vii. 1777, Pl. 408, Fig. 1
„ „ timber, vii. 1823, 1824
„ „ varieties, vii. 1777
„ Yellow, i. 65 note 1; iii. 514. Cf. Liriodendron Tulipifera
Populus, Linnæus, vii. **1770**. *See also* Poplar
„ section Aigeiros, Duby, vii. **1772**
„ „ Leuce, Duby, vii. **1772**
„ „ Leucoides, Spach, vii. **1775**
„ „ Tacamahaca, Spach, vii. **1774**
„ „ Turanga, Bunge, vii. **1771**, 1770 note 1
Populus *alba*, Burkill, vii. 1786
„ „ Dode, vii. 1780
„ alba, *Linnæus*, vii. **1777**, 1772, 1776, 1781 note 3, 1782
„ „ distribution, etc. *See* Poplar, White
„ „ var. *acerifolia*, vii. 1777
„ „ *arembergiana*, vii. 1777
„ „ *argentea*, vii. 1777
„ „ *Bolleana*, vii. 1778
„ „ *canescens*, vii. 1780
„ „ *croatica*, vii. 1778 note 4
„ „ *denudata* (Maximowicz), vii. 1786
„ „ denudata (Wesmael), vii. 1777
„ „ *foliis minoribus*, vii. 1780
„ „ *genuina*, vii. 1780
„ „ globosa, vii. **1779**
„ „ *integrifolia*, vii. 1778
„ „ nivea, vii. **1777**
„ „ pendula, vii. **1779**
„ „ pyramidalis, vii. **1778** and note 7, 1799 note 7
„ „ Richardi, vii. **1779**
„ „ subintegerrima, vii. **1778**
„ „ *tomentosa*, vii. 1786
„ „ *typica*, vii. 1780
„ *alba*, Willdenow, vii. 1780

Populus—*continued*
„ *albo-tremula*, Krause, vii. 1782 note 4
„ angulata, *Aiton*, vii. **1810**, 1773, 1807, 1815, 1830
„ „ distribution, etc. *See* Poplar, Carolina
„ „ var. *cordata*, vii. 1811
„ „ „ *robusta*, vii. 1829
„ „ missouriensis, vii. **1811**, 1809 note 2
„ *angulosa*, Michaux, vii. 1810
„ angustifolia, *James*, vii. **1831**, 1775
„ „ leaves, vii. 1831, Pl. 410, Fig. 26
„ *angustifolia*, Newberry, vii. 1836
„ *atheniensis*, Ludwig, vii. 1791
„ *australis*, Tenore, vii. 1787
„ *Bachofenii*, Reichenbach, vii. 1780
„ „ Wierzbicki, vii. 1780 note 5
„ *balsamea*, vii. 1835 note 7
„ ? *balsamifera*, J. D. Hooker, vii. 1840
„ balsamifera, *Linnæus*, vii. **1832**, 1774, 1834, 1837, 1840 note 1
„ „ Bute House, Petersham, tree at, vii. 1833, Pl. 387
„ „ leaves, vii. 1832, Pl. 410, Fig. 27
„ „ var. *angustifolia*, vii. 1831
„ „ *candicans*, vii. 1834
„ „ γ (Hooker), vii. 1836
„ „ *intermedia*, vii. 1841
„ „ *laurifolia*, vii. 1842
„ „ *Simonii*, vii. 1839
„ „ *suaveolens* (Burkill), vii. 1838
„ „ „ (Loudon), vii. 1841
„ „ *viminalis*, vii. 1842
„ *balsamifera*, Lyall, vii. 1836
„ „ Miller, vii. 1810
„ „ Pallas, vii. 1841
„ berolinensis, *Dippel*, vii. **1844**, 1775
„ „ leaves, vii. 1844, Pl. 410, Fig. 29
„ *Besseyana*, Dode, vii. 1810
„ *betulifolia*, Pursh, vii. 1796
„ *Bogueana*, Dode, vii. 1781, 1786 note 3
„ *Bolleana*, Carrière, vii. 1778
„ *Brandegeei*, Schneider, vii. 1778
„ *canadensis*, Desfontaines, var. *angustifolia*, vii. 1831
„ „ Hartig, vii. 1827, 1828
„ „ Mathieu, vii. 1816
„ „ Michaux, vii. 1807, 1809 note 3, 1814
„ „ Moench, vii. 1807 note 5
„ „ Poiret, vii. 1815
„ „ var. *aurea van Geerti*, vii. 1817
„ „ *grandifolia*, vii. 1824
„ candicans, *Aiton*, vii. **1834**, 1774, 1807 note 5, 1832, 1833
„ „ leaves, vii. 1834, Pl. 410, Fig. 22
„ „ variegated form, vii. 1834
Populus—*continued*
„ *canescens*, Dode, vii. 1782 note 1
„ „ Reichenbach, vii. 1788
„ canescens, *Smith*, vii. **1780**, 1770, 1772, 1776, 1777, 1779 and note 2, 1790
„ „ remarkable trees, etc. *See* Poplar, Grey
„ „ var. *pendula*, vii. 1791 note 2
„ *carolinensis*, Fougeroux de Bondaroy, vii. 1810
„ „ Moench, vii. 1810
„ cercidiphylla, *Britton*, vii. **1791**
„ *certinensis*, Dieck, vii. 1844, 1845
„ ciliata, vii. 1834, 1838, 1840 note 4
„ *coloradensis*, Dode, vii. 1831
„ *cordata*, Simon-Louis, vii. 1811 note 1
„ *croatica*, Waldstein and Kitaibel, vii. 1778 note 4, 1798 note 4
„ *deltoide*, Marshall, vii. 1807 note 6
„ *deltoidea*, Marshall, vii. 1808
„ „ Sargent, vii. 1807
„ „ var. *erecta*, vii. 1826
„ *deltoides*, Sudworth, vii. 1807
„ *dilatata*, Aiton, vii. 1798
„ *elegans*, Ellwanger and Barry, vii. 1798
„ Eugenei, *Simon-Louis*, vii. **1826**, 1773, 1776, 1818, 1830
„ „ leaves, vii. 1826, Pl. 409, Fig. 17
„ euphratica, *Olivier*, vii. **1771**, 1752
„ *euxylon*, Dode, vii. 1828
„ *Fargesii*, Franchet, vii. 1846
„ *fastigiata*, Poiret, vii. 1798
„ „ var. *pannonica*, vii. 1798 note 4
„ „ *plantierensis*, vii. 1802
„ Fremontii, *Watson*, vii. **1794**, 1773
„ „ leaves, vii. 1795, Pl. 409, Fig. 13
„ „ var. Wislizeni, vii. **1795**
„ *græca*, Aiton, vii. 1791 note 1
„ „ Grisebach, vii. 1787
„ „ Loudon, vii. 1791
„ grandidentata, *Michaux*, vii. **1792**, 1772
„ „ leaves, vii. 1792, Pl. 408, Fig. 7
„ „ var. *pendula*, vii. 1793, 1794 notes 1 and 2
„ *hastata*, Dode, vii. 1836, 1837
„ *helvetica*, Poederlé, vii. 1816
„ Henryana, *Dode*, vii. **1829**, 1774
„ „ leaves, vii. 1829, Pl. 409, Fig. 18
„ *heteroloba*, Dode, vii. 1777 note 3, 1780 note 5
„ *heterophylla*, Du Roi, vii. 1810
„ heterophylla, *Linnæus*, vii. 1775, 1846 note 2, Pl. 408, Fig. 10
„ hispida, *Haussknecht*, vii. 1797 note 2
„ *hudsonica*, Michaux f., vii. 1796, 1797 note 5
„ *hybrida*, Bieberstein, vii. 1780 note 4
„ „ Reichenbach, vii. 1780
„ *hybrida berolinensis*, Koch, vii. 1844

Populus—*continued*
„ *illicitana*, Dode, vii. 1771 note 2
„ incrassata, *Dode*, vii. 1826 note 1
„ *italica*, Moench, vii. 1798
„ lasiocarpa, *Oliver*, vii. **1846**, 1775
„ „ leaves, vii. 1846, Pl. 408, Fig. 9
„ *latifolia*, Moench, vii. 1807 note 5
„ laurifolia, *Ledebour*, vii. **1842**, 1775
„ „ hybrids, vii. 1843
„ „ leaves, vii. 1842, Pl. 410, Fig. 30
„ *Lindleyana*, Carrière, vii. 1842
„ Lloydii, *A. Henry*, vii. **1830**, 1774, 1796 note 1, 1816
„ „ leaves, vii. 1830, Pl. 409, Fig. 21
„ *macrophylla*, Lindley, vii. 1834
„ „ Loddiges, vii. 1810
„ *major*, Miller, vii. 1777
„ marilandica, *Bosc*, vii. **1828**, 1774, 1776, 1815, 1827
„ „ leaves, vii. 1828, Pl. 409, Fig. 19
„ Maximowiczii, *A. Henry*, vii. **1838**, 1774
„ „ leaves, vii. 1838, Pl. 410, Fig. 24
„ *megaleuce*, Dode, vii. 1780
„ *Michauxi*, Dode, vii. 1832
„ monilifera, *Aiton*, vii. **1807**, 1773, 1776, 1815
„ „ distribution, etc. *See* Poplar, Canadian Black
„ „ var. *erecta*, vii. 1817
„ „ occidentalis, vii. **1808**, 1809
„ *monilifera*, Hort. Paris, vii. 1815
„ „ Michaux f., vii. 1816
„ „ Torrey, vii. 1794
„ *monticola*, Brandegee, vii. 1778
„ *Morisetiana*, Dode, vii. 1777 note 3
„ *Muelleriana*, Dode, vii. 1796
„ *nigra*, Dode, vii. 1796
„ nigra, *Linnæus*, vii. **1795**, 1773, 1776, 1815, 1831 note
„ „ distribution, etc. *See* Poplar, Black
„ „ var. *betulæfolia*, vii. 1796
„ „ betulifolia, vii. **1796**, 1773, 1797, 1802, 1830
„ „ *helvetica*, vii. 1815, 1816
„ „ *hudsonica*, vii. 1796
„ „ italica, vii. **1798**
„ „ „ Brunswick, tree at, vii. 1798, Pl. 383
„ „ „ timber, vii. 1824
„ „ *italica* × *P. laurifolia*, vii. 1844
„ „ pannonica, vii. 1798 note 4
„ „ plantierensis, vii. **1802**, 1773
„ „ pubescens, vii. 1797 note 2
„ „ *pyramidalis*, vii. 1798
„ „ typica, vii. **1796**, 1773
„ „ „ leaves, vii. 1796, Pl. 409, Fig. 11
„ „ viadri, vii. **1802**
„ „ *viridis*, vii. 1796

Populus—*continued*
„ *nigra*, Michaux, vii. 1796
„ *nivea*, Willdenow, vii. 1777
„ *occidentalis*, Britton, vii. 1808
„ *ontariensis*, Desfontaines, vii. 1834
„ *Paletskyana*, Dode, vii. 1777 note 3
„ *palmata*, Dode, vii. 1777 note 3
„ pannonica, *Kitaibel*, vii. 1798 note 4
„ *pekinensis*, L. Henry, vii. 1786
„ *pendula*, Burgsdorf, vii. 1788
„ petrowskyana, *Schroeder*, vii. **1844**, 1775 note 2, 1841 note 2
„ *plantierensis*, Dode, vii. 1802
„ *pruinosa*, Schrenk, vii. 1771 note 2
„ Przewalskii, *Maximowicz*, vii. **1841**
„ ? *pseudobalsamifera*, Fischer, vii. 1844
„ pseudo-grandidentata, *Dode*, vii. **1793**
„ „ leaves, vii. 1793, Pl. 408, Fig. 8
„ *pyramidalis*, Borkhausen, vii. 1798
„ „ var. *meetensis*, vii. 1826
„ „ *Thaysiana*, vii. 1801 note 6
„ *pyramidata*, Moench, vii. 1798
„ rasumowskyana, *Schroeder*, vii. **1843**, 1775 note 2, 1841 note 2, 1844 and note 2
„ regenerata, *Schneider*, vii. **1824**, 1773, 1815
„ „ Beauport, peculiar hybrid at, vii. 1826
„ robusta, *Schneider*, vii. **1829**, 1774, 1776, 1818, 1831
„ „ leaves, vii. 1829, Pl. 409, Fig. 20
„ *rotundifolia*, Simon-Louis, vii. 1794
„ *salicifolia*, Rafinesque, vii. 1831
„ *Sargentii*, Dode, vii. 1808
„ serotina, *Hartig*, vii. **1816**, 1773, 1803, 1805, 1807 note 4, 1828 note 3, 1830
„ „ cultivation, etc. *See* Poplar, Black Italian
„ „ var. aurea, vii. **1817**
„ „ erecta, vii. **1817**
„ Sieboldii, *Miquel*, vii. **1794**, 1772
„ „ leaves, vii. 1794, Pl. 408, Fig. 6
„ Simonii, *Carrière*, vii. **1839**, 1775
„ „ leaves, vii. 1839, Pl. 410, Fig. 28
„ *Steiniana*, Bornmüller, vii. 1780
„ suaveolens, *Fischer*, vii. **1841**, 1774, 1838
„ „ leaves, vii. 1841, Pl. 410, Fig. 25
„ *suaveolens*, Regel, vii. 1838
„ *subintegerrima*, Dode, vii. 1778
„ *Tacamahaca*, Miller, vii. 1834
„ thevestina, *Dode*, vii. 1798 note 2
„ tomentosa, *Carrière*, vii. **1786**, 1772, 1777
„ „ leaves, vii. 1786, Pl. 408, Fig. 2
„ tremula, *Linnæus*, vii. **1787**, 1772, 1781, 1782
„ „ fossil, vii. 1783 note 2
„ „ hybrids, vii. 1782 and note 4
„ „ leaves, vii. 1787, Pl. 408, Fig. 4
„ „ timber, vii. 1790, 1823, 1824
„ „ var. *ampliori folio*, vii. 1793 note 2
„ „ Freyni, vii. **1787**
„ „ pendula, vii. **1788**

Populus tremula, *Linnæus—continued*
„ „ var. *pseudo-grandidentata*, vii. 1793
„ „ *purpurea*, vii. 1787 note 2
„ „ *villosa* (Franchet and Savatier), vii. 1794
„ „ villosa (Wesmael), vii. 1788, 1782 note 4
„ *tremuliformis*, Emerson, vii. 1791
„ tremuloides, *Michaux*, vii. 1791, 1772, 1790, 1793
„ „ leaves, vii. 1791, Pl. 408, Fig. 5
„ „ var. pendula, vii. 1791
„ *trepida*, Willdenow, vii. 1791
„ *Treyviana*, Dode, vii. 1777 note 3
„ trichocarpa, *Torrey et Grey*, vii. 1836, 1775, 1834
„ „ leaves, vii. 1836, Pl. 410, Fig. 31
„ „ Vancouver Island, tree in, vii. 1837, Pl. 388
„ „ var. cupulata, vii. 1837 note 1
„ „ hastata, vii. 1837
„ „ ingrata, vii. 1837
„ *triloba*, Dode, vii. 1777 note 3
„ tristis, *Fischer*, vii. 1840, 1774
„ „ leaves, vii. 1840, Pl. 410, Fig. 23
„ *Vaillantiana*, Dode, vii. 1796
„ *viadri*, Rüdiger, vii. 1802
„ *villosa*, Lange, vii. 1788
„ *virginiana*, Fougeroux de Bondaroy, vii. 1807, 1814
„ „ Hort., vii. 1815
„ „ Mirbel, vii. 1816
„ *vistulensis*, Hort., vii. 1803 note 1
„ *Wislizeni*, Sargent, vii. 1795
„ Wobstii, *Schroeder*, vii. 1843, 1775
„ *wutaica*, Mayr, vii. 1786 note 1
„ yunnanensis, *Dode*, vii. 1840
Prays curtisellus. *See* Insects
Prinos, Linnæus, vii. 1702
Prumnopitys, i. 99
Prunus, Linnæus, vi. 1534. *See also* Cherry
„ section Cerasus, vi. 1534
„ „ Laurocerasus, vi. 1535
„ „ Padus, vi. 1534
Prunus *acida*, Ehrhart, vi. 1541 note 1
„ „ Koch, vi. 1541
„ alabamensis, *Mohr*, vi. 1547
„ australis, *Beadle*, vi. 1547
„ Avium, *Linnæus*, vi. 1535, 1534
„ „ cultivation, vi. 1537
„ „ distribution, vi. 1536
„ „ fossil, vi. 1537
„ „ George's Green, Slough, tree at, vi. 1539, Pl. 355
„ „ hybrid, vi. 1536
„ „ remarkable trees, vi. 1537
„ „ Savernake Forest, tree in, vi. 1538, Pl. 354
„ „ timber, vi. 1540
„ „ var. aspleniifolia, vi. 1536
„ „ decumana, vi. 1536
„ „ duracina, vi. 1536
„ „ flore pleno, vi. 1536
„ „ Juliana, vi. 1536
Prunus Avium, *Linnæus—continued*
„ „ var. *regalis*, vi. 1536
„ „ salicifolia, vi. 1536
„ *borealis*, Salisbury, vi. 1544
„ Capuli, *Cavanilles*, vi. 1547
„ Cerasus, *Linnæus*, vi. 1541, 1534
„ „ var. acida, vi. 1541
„ „ aucubæfolia, vi. 1541
„ „ *Avium*, vi. 1535
„ „ cucullata, vi. 1541
„ „ globosa, vi. 1541
„ „ persiciflora, vi. 1541
„ „ *ranunculiflora*, vi. 1541
„ „ Rhexii, vi. 1541
„ „ semperflorens, vi. 1541
„ *cornuta*, Steudel, vi. 1544
„ *Cupaniana*, Gussone, vi. 1542
„ Cuthbertii, *Small*, vi. 1546
„ domestica, *Linnæus*, i. 148
„ Fontanesiana, *Schneider*, vi. 1536
„ *græca*, Desfontaines, vi. 1536
„ Grayana, *Maximowicz*, vi. 1544 note 3
„ Laucheana, *Bolle*, vi. 1544 note 2
„ Laurocerasus, *Linnæus*, vi. 1551, 1535
„ „ distribution and cultivation, vi. 1552
„ „ var. angustifolia, vi. 1552
„ „ brachystachius, vi. 1551
„ „ camelliæfolia, vi. 1552
„ „ laurifolius, vi. 1551
„ „ parvifolia, vi. 1552
„ „ rotundifolia, vi. 1552
„ „ schipkaensis, vi. 1551
„ „ serbica, vi. 1552
„ „ variegata, vi. 1552
„ lusitanica, *Linnæus*, vi. 1553, 1535
„ „ distribution and cultivation, vi. 1554
„ „ var. azorica, vi. 1554
„ „ Hixa, vi. 1554
„ „ myrtifolia, vi. 1554
„ „ variegata, vi. 1554
„ Mahaleb, *Linnæus*, vi. 1542, 1534
„ „ var. albo-marginata, vi. 1543
„ „ chrysocarpa, vi. 1542
„ „ Cupaniana, vi. 1542
„ „ globosa, vi. 1542
„ „ monstrosa, vi. 1543
„ „ transilvanica, vi. 1542
„ „ variegata, vi. 1543
„ *odorata*, Lamarck, vi. 1542
„ Padus, *Linnæus*, vi. 1543, 1535
„ „ distribution, vi. 1545
„ „ fossil, vi. 1545
„ „ var. aucubæfolia, vi. 1545
„ „ aurea, vi. 1545
„ „ borealis, vi. 1544
„ „ bracteosa, vi. 1545
„ „ commutata, vi. 1544
„ „ cornuta, vi. 1544
„ „ leucocarpa, vi. 1544
„ „ *petræa*, vi. 1544
„ „ pubescens, vi. 1544
„ „ *rotundifolia*, vi. 1544 note 2

Prunus—*continued*
„ *petræa*, Tausch, vi. 1544
„ *racemosa*, Lamarck, vi. 1543
„ salicifolia, *Humboldt, Bonpland, and Kunth*, vi. **1547**
„ *semperflorens*, Ehrhart, vi. 1541
„ serotina, *Ehrhart*, vi. **1546**, 1535
„ „ bark, vi. 1550
„ „ cultivation, vi. 1548
„ „ distribution, vi. 1548
„ „ timber, vi. 1550
„ „ var. aspleniifolia, vi. **1547**
„ „ cartilaginea, vi. **1547**
„ „ neomontana, vi. **1546**
„ „ pendula, vi. **1547**
„ „ *phelloides*, vi. 1547
„ „ salicifolia, vi. **1547**
„ „ variegata, vi. **1547**
„ spinosa, var. præcox, vii. 1736 note 3
„ virginiana, *Linnæus*, vi. **1546**
„ *virginiana*, Miller, vi. 1546
Pseudacacia, Moench, vi. 1496
Pseudacacia hispida, Moench, vi. 1508
„ *odorata*, Moench, vi. 1497
Pseudolarix, Gordon, vi. **1477**; i. 172
Pseudolarix Fortunei, *Mayr*, vi. **1477**
„ „ remarkable trees, vi. 1479
„ „ var. nana, vi. 1479 and note 4
„ *Kaempferi*, Gordon, ii. 384 note 2; vi. 1477
Pseudotsuga, Carrière, iv. **811**
„ key to species, iv. 812
Pseudotsuga *Davidiana*, Bertrand, vi. 1475
„ Douglasii, *Carrière*, iv. **814**, 812
„ „ age of mature trees, iv. 820
„ „ blight, iv. 826
„ „ Buckhold, rate of growth at, iv. 826
„ „ cultivation, iv. 824
„ „ distribution, iv. 816
„ „ "Douglas Flagstaff," in Kew Gardens, iv. 822
„ „ Dunster Castle, plantation, iv. 830
„ „ Eggesford, tree at, iv. 827, Pl. 229
„ „ Endsleigh, plantation, iv. 829
„ „ fungus attacks, iv. 826
„ „ in America, iv. 816
„ „ in England, iv. 827-830
„ „ in Germany, at Sachsenwald, iv. 835
„ „ in Ireland, iv. 835
„ „ in Scotland, iv. 831
„ „ in Vancouver, forest, iv. 819, Pl. 228; largest tree, at Barkley's Farm, iv. 818, Pl. 227
„ „ introduction, iv. 824
„ „ lumbering, iv. 821
„ „ Lynedoch, tree at, iv. 831, Pl. 230
„ „ masts of racing yachts, used for, iv. 823
Pseudotsuga Douglasii, *Carrière—continued*
„ „ Powis Castle, trees at, iv. 828
„ „ rapid growth, iv. 819
„ „ remarkable trees, iv. 827
„ „ Scone Palace, one of the oldest trees at, iv. 831
„ „ Taymount, plantation, iv. 832
„ „ tendency to form large branches, iv. 834
„ „ timber, iii. 698; iv. 819, 836
„ „ Tortworth, plantation, iv. 830, Pl. 231
„ „ trees associated with, iv. 817, 818
„ „ var. elongata, iv. **816**
„ „ Fretsii, iv. **816**
„ „ glauca, iv. **814**, 825
„ „ *macrocarpa*, iv. 812
„ „ palustris, iv. **816**
„ „ Stairii, iv. **816**
„ „ suberosa, iv. **816**
„ „ Woburn, plantation, iv. 829
„ *glauca*, Mayr, iv. 814, 815
„ *glaucescens*, Bailly, iv. 814, 815 note 1
„ japonica, *Beissner*, iv. **812**
„ „ Japanese name, iv. 813
„ *jezoensis*, Bertrand, vi. 1474
„ *Lindleyana*, Carrière, iv. 814, 815 note 1
„ macrocarpa, *Mayr*, iv. **812**
„ *mucronata*, Sudworth, iv. 814
„ *taxifolia*, Britton, iv. 814
Psylla alni, etc. *See* Insects
Pterocarpus Marsupium, vi. 1613 note 3
Pterocarya, Kunth, ii. **436**
„ section Cycloptera, Franchet, ii. **437**
„ „ Diptera, A. Henry, ii. **437**
Pterocarya caucasica, *C. A. Meyer*, ii. **438**, 436, 437
„ „ Cambridge, tree at, ii. 442, Pl. 123
„ „ Claremont, tree at, ii. 441, Pl. 122
„ „ cultivation, ii. 440
„ „ distribution, ii. 440
„ „ hybrid, ii. 439
„ „ identification, ii. 439
„ „ leaves, ii. 438, Pl. 125, Fig. 1
„ „ Melbury, tree at, ii. 441, Pl. 121
„ „ remarkable trees, ii. 441
„ „ var. dumosa, ii. **439**
„ Delavayi, *Franchet*, ii. **437**
„ *dumosa*, Lavallée, ii. 439
„ *fraxinifolia*, Spach, ii. 438
„ hupehensis, *Skan*, ii. **437**
„ macroptera, *Batalin*, ii. **438**
„ Paliurus, *Batalin*, ii. **437**, 436
„ Rehderiana, *Schneider*, ii. **439**
„ rhoifolia, *Siebold and Zuccarini*, ii. **442**, 436, 438, 439
„ „ Japanese name, ii. 443
„ „ leaves, ii. 442, Pl. 125, Fig. 3
„ *sorbifolia*, Dippel, ii. 438
„ „ Siebold and Zuccarini, ii. 442

Pterocarya—*continued*
„ *Spachiana*, Lavallée, ii. 438
„ stenoptera, *C. de Candolle*, ii. **443**, 436, 437
„ „ Chinese name, ii. 444
„ „ hybrid, ii. 439
„ „ leaves, ii. 443, Pl. 125, Fig. 2
„ „ var. tonkinensis, ii. 444 note 1
Pterostyrax, Siebold and Zuccarini, vi. **1600**
Pterostyrax corymbosa, *Siebold and Zuccarini*, vi. 1601 note 1
„ hispida, *Siebold and Zuccarini*, vi. **1601**
„ psilophylla, *Diels*, vi. 1601 note 1
Pyrobetulin, iv. 974 note
Pyrus, Linnæus, i. **141**; vi. **1556**
„ section Aria, i. **142**
„ „ Aronia, i. **141**, **144**
„ „ Aucuparia, vi. **1574**
„ „ Hahnia, i. **141**
„ „ Malus, vi. **1566**; i. 141
„ „ „ sub-sect. Eumalus, vi. **1566**
„ „ „ „ Sorbomalus, vi. **1568**
„ „ Micromeles, i. **142**
„ „ Pyrophorum, vi. **1556**; i. 141
„ „ Sorbus, i. **142**
„ „ „ sub-sect. Aucuparia, i. **142**
„ „ „ „ Cormus, i. **142**
„ species in cultivation, synopsis of, i. 142; vi. 1556, 1566
Pyrus *acerba*, De Candolle, vi. 1570
„ alnifolia, *Franchet and Savatier*, i. **144**
„ alpina, *Willdenow*, i. **144**
„ americana, *De Candolle*, vi. **1574**; i. **142**
„ „ leaves, i. 142, Pl. 43, Fig. 1
„ „ var. decora, vi. **1574**
„ amygdaliformis, *Villar*, vi. **1559**
„ angustifolia, *Aiton*, vi. **1569**
„ *apetala*, Muenchhausen, vi. 1571
„ arbutifolia, *Linnæus fil.*, i. **144**, 143
„ Aria, *Ehrhart*, i. **166**, 144, 155, 160, 164
„ „ branchlets and buds, i. 166, Pl. 45, Fig. 5
„ „ Camp Wood, tree at, i. 168, Pl. 51
„ „ distribution, i. 168
„ „ hybrid, vi. 1562
„ „ identification, i. 166
„ „ leaves, i. 144, 166, 168, Pl. 44, Fig. 18
„ „ remarkable trees, i. 168
„ „ timber, i. 169
„ „ var. chrysophylla, i. 167
„ „ Decaisneana, i. **167**, 145
„ „ „ leaves, i. 145, 166, 167, Pl. 43, Fig. 8
„ „ flabellifolia, i. **167**, 144
„ „ græca, i. **167**, 144
„ „ lutescens, i. 167
„ „ *meriodionalis*, i. 167 note 2
„ „ quercoides, i. **167**
„ „ rupicola, i. **167**, 168
„ „ „ leaves, i. 145, 166, 167, Pl. 44, Fig. 13
„ „ salicifolia, i. **167**
„ „ „ leaves, i. 166, 167, Pl. 44, Fig. 16
Pyrus Aria, *Ehrhart—continued*
„ „ var. sinensis, i. **167**
„ „ sulphurea, i. 167
„ Ario-torminalis, *Garcke*, i. 155 note 1
„ *astracanica*, De Candolle, vi. 1571
„ Aucuparia, *Gaertner*, vi. **1576**; i. 142, 143, 147, 160, 163, 164; vi. 1575
„ „ cultivation, vi. 1579
„ „ distribution, vi. 1578
„ „ hybrids, i. 161; vi. 1578
„ „ leaves, i. 142, Pl. 43, Fig. 2
„ „ var. asplenifolia, vi. **1577**
„ „ decurrens, i. **143**, 163
„ „ Dirkenii (aurea), vi. **1578**
„ „ dulcis, vi. **1577**
„ „ fastigiata, vi. **1577**
„ „ Fifeana, vi. **1577**
„ „ *fructu luteo*, vi. 1577
„ „ glabrata, vi. **1576**
„ „ integerrima, vi. **1577**
„ „ laciniata, vi. **1577**
„ „ lanuginosa, vi. **1577**
„ „ *moravica*, vi. 1577
„ „ pendula, vi. **1577**
„ „ rossica, vi. **1577**
„ „ satureifolia, i. **143**, 163
„ auricularis, *Knoop*, vi. **1562**
„ „ var. bulbiformis, vi. 1562
„ baccata, *Linnæus*, vi. **1567**
„ Balansæ, *Decaisne*, vi. 1557 note 2
„ betulæfolia, *Bunge*, vi. **1557**
„ *Boissieriana*, Buhse, vi. 1561
„ *Bollwyleriana*, De Candolle, vi. 1562
„ *Bourgæana*, Decaisne, vi. 1562
„ *bucharica*, Litwinow, vi. 1558 note 1
„ canescens, *Spach*, vi. **1560**
„ Chamæmespilus, *Ehrhart*, i. **144**, 168
„ „ × P. Mougeoti, i. 168
„ commixta, *Ascherson and Graebner*, vi. **1574**
„ „ var. rufo-ferruginea, vi. 1574 note 5
„ communis, *Linnæus*, vi. **1560**, 1558
„ „ distribution, vi. 1562
„ „ hybrid, vi. 1562
„ „ Lassington, tree at, vi. 1563, Pl. 356
„ „ remarkable trees, vi. 1563
„ „ Stockton, Worcester, tree at, vi. 1564, Pl. 357
„ „ timber, vi. 1565
„ „ var. *azarolifera*, vi. 1561
„ „ *Briggsii*, vi. 1561
„ „ cordata, vi. **1561**
„ „ longipes, vi. **1561**
„ „ Mariana, vi. **1562**
„ „ Pyraster, vi. **1561**
„ „ sativa, vi. **1561**
„ *cordata*, Desvaux, vi. 1561 and note 5
„ coronaria, *Linnæus*, vi. **1569**
„ crætægifolia, *Savi*, i. **143**
„ *Decaisneana*, Nicholson, i. 167 note 4
„ *decipiens*, Bechstein, i. 155 note 4
„ decurrens, *Ascherson and Graebner*, vi. **1578**
„ *dioica*, Moench, vi. 1571

Pyrus—*continued*
„ discolor, *Maximowicz*, vi. 1575
„ *diversifolia*, Bongard, vi. 1569 note 2
„ *domestica*, Ehrhart, i. 146
„ elæagrifolia, *Pallas*, vi. 1558
„ *fennica*, Babington, i. 161, 163, 164
„ fennica × P. Aucuparia, i. 161
„ floribunda, *Nicholson*, vi. 1569
„ foliolosa, *Wallich*, vi. 1576 note 2
„ glabra, *Boissier*, vi. 1557 note 6
„ Halleana, *Sargent*, vi. 1568
„ heterophylla, *Regel and Schmalhausen*, vi. 1556
„ Hostii, *Hort.*, i. 167, 145
„ „ leaves, i. 168, Pl. 44, Fig. 15
„ hybrida, *Moench*, i. 143, 162, 163
„ intermedia, *Ehrhart*, i. 159, 143, 156, 157, 161, 163, 164, 168
„ „ branchlets and buds, i. 160, Pl. 45, Fig. 4
„ „ distribution, i. 160
„ „ hybrids, i. 160, 163, 168
„ „ identification, i. 159
„ „ leaves, i. 143, 159, Pl. 44, Fig. 10
„ „ remarkable trees, i. 162
„ „ var. minima, i. 159, 160
„ „ „ leaves, i. 144, 159, Pl. 44, Fig. 17
„ „ Mougeoti, i. 159, 143, 160
„ „ scandica, i. 159, 160, 164
„ „ „ leaves, i. 144, 159, Pl. 44, Fig. 19
„ „ „ Syon, tree at, i. 162, Pl. 50
„ ioensis, *Bailey*, vi. 1568
„ *irregularis*, Muenchhausen, vi. 1562
„ Korshinskyi, *Litwinow*, vi. 1557
„ lanata, *D. Don*, i. 145; 144, 168
„ „ leaves, i. 144, 145, Pl. 43, Fig. 6
„ lanuginosa, *De Candolle*, i. 142; vi. 1577
„ *lanuginosa*, Hort., i. 143, 163 note 4; vi. 1578
„ latifolia, *Boswell Syme*, i. 155, 143, 151, 160, 164; vii. 1663
„ „ branchlets and buds, i. 156, Pl. 45, Fig. 3
„ „ distribution, i. 156
„ „ identification, i. 156
„ „ leaves, i. 143, 156, Pl. 44, Figs. 9, 11, and 12
„ „ Oakley Park, tree at, i. 158, Pl. 49
„ „ remarkable trees, i. 157
„ „ var. decipiens, i. 155, 143, 157
„ „ rotundifolia, i. 155, 157
„ „ semilobata, i. 156, 157
„ *lobata*, Nicholson, vii. 1732
„ *longipes*, Cosson and Durieu, vi. 1561
„ Malus, *Linnæus*, vi. 1570, 1566
„ „ distribution, vi. 1571
„ „ var. apetala, vi. 1571
„ „ astracanica, vi. 1571
„ „ aucubæfolia, vi. 1571
„ „ *mitis*, vi. 1570
„ „ Niedzwetzkyana, vi. 1571

Pyrus Malus, *Linnæus—continued*
„ „ var. pendula, vi. 1571
„ „ pumila, vi. 1570
„ „ sylvestris, vi. 1570
„ *Meinickii*, Brunchorst, i. 161
„ *minima*, Ley, i. 159 note 3
„ *Niedzwetzkyana*, Hemsley, vi. 1571
„ nigra, *Sargent*, i. 144
„ nivalis, *Jacquin*, vi. 1559
„ Pashia, *Buchanan-Hamilton*, vi. 1558; v. 1159 note 6
„ „ var. Kumaoni, vi. 1558
„ persica, *Persoon*, vi. 1559 note 1
„ pinnatifida, *Ehrhart*, i. 163, 143, 144, 161; vi. 1578 note 1
„ „ branchlets and buds, i. 164, Pl. 45, Fig. 6
„ „ distribution, i. 164
„ „ identification, i. 163
„ „ leaves, i. 143, 163, Pl. 43, Fig. 5
„ „ varieties, i. 163
„ pohuashanensis, *Hance*, vi. 1575
„ *Pollveria*, Linnæus, vi. 1562
„ præmorsa, *Gussone*, vi. 1578 note 4
„ prunifolia, *Willdenow*, vi. 1567
„ *pumila*, Koch, vi. 1570
„ Ringo, *Koch*, vi. 1566
„ „ var. fastigiata bifera, vi. 1566
„ rivularis, *Douglas*, vi. 1569
„ *rotundifolia*, Bechstein, i. 155
„ *rupicola*, Boswell Syme, i. 167 note 1
„ salicifolia, *Pallas*, vi. 1560
„ salvifolia, *De Candolle*, vi. 1559
„ sambucifolia, *Chamisso and Schlechtendal*, i. 142; vi. 1574 note 3
„ *sambucifolia*, Hort., vi. 1574
„ satureiifolia, *Ascherson and Graebner*, vi. 1578
„ *scandica*, Ascherson, i. 159
„ Scheideckeri, *Späth*, vi. 1567
„ *semilobata*, Bechstein, i. 156 note 1
„ *semipinnata*, Roth, i. 163
„ sikkimensis, *J. D. Hooker*, vi. 1568
„ *Simonii*, Carrière, vi. 1556
„ *sinaica*, Thouin, vi. 1558, 1559 note 1
„ sinensis, *Lindley*, vi. 1556
„ Sorbus, *Gaertner*, i. 146, 143, 166
„ „ Arley Castle, tree at, i. 148, Pl. 46
„ „ branchlets and buds, i. 147, Pl. 45, Fig. 2
„ „ distribution, i. 147
„ „ identification, i. 147
„ „ leaves, i. 143, 146, Pl. 43, Fig. 3
„ „ remarkable trees, i. 147
„ „ timber, i. 149
„ „ var. maliformis, i. 146, 149 and note 2
„ „ pyriformis, i. 146, 149 and note 2
„ Soulardi, *Bailey*, vi. 1568
„ spectabilis, *Aiton*, vi. 1566
„ „ var. Riversii, vi. 1567
„ *suecica*, Garcke, i. 159
„ syriaca, *Boissier*, vi. 1557
„ Thuringiaca, *Ilse*, i. 163

Pyrus—*continued*
„ tianshanica, *Franchet*, vi. **1575**; i. 142
„ Toringo, *Siebold*, vi. **1569**
„ torminalis, *Ehrhart*, i. **151**, 141, 143, 156 note 2, 158, 161
„ „ branchlets and buds, i. 151, Pl. 45, Fig. 1
„ „ distribution, i. 152
„ „ hybrid, i. 155
„ „ identification, i. 151
„ „ leaves, i. 151, Pl. 44, Fig. 14
„ „ remarkable trees, i. 152
„ „ Rickmansworth Park, tree at, i. 153, Pl. 48
„ „ timber, i. 154
„ „ Tortworth, tree at, i. 153, Pl. 47
„ „ var. pinnatifida, i. 151
„ *ussuriensis*, Maximowicz, vi. 1556
„ vestita, *Wallich*, i. **145**
„ „ leaves, i. 145, Pl. 43, Fig. 7
„ Vilmorini, *Ascherson and Graebner*, vi. **1575**

Quebracho wood, ii. 243 note
Quejigo, v. 1324
Quercitron, v. 1240
Quercus, Linnæus, v. **1215**; ii. 282. *See also* Oak
„ key to species, v. 1217
„ sect. Cyclobalanopsis, v. **1216**
„ „ Lepidobalanus, Endlicher, v. **1215**
„ „ „ sub-sect. Cerris, v. **1216**
„ „ „ „ Erythrobalanus, v. **1216**
„ „ „ „ Leucobalanus, v. **1216**
„ „ Pasania, v. **1217**, 1215
Quercus *acroglandis*, Kellogg, v. 1252
„ *acuminata*, Sargent, v. 1310
„ acuta, *Thunberg*, v. **1330**, 1217, 1223
„ „ leaves, etc., v. 1223, 1330, Pl. 338, Fig. 56
„ „ var. *bambusæfolia*, v. 1329
„ *acutissima*, Carruthers, v. 1276
„ *Ægilops*, Grisebach, v. 1273
„ Ægilops, *Linnæus*, v. **1268**, 1216, 1219, 1227
„ „ acorn cups used for tanning, v. 1270
„ „ cultivation, v. 1269
„ „ distribution, v. 1269
„ „ leaves, etc., v. 1219, 1268, Pl. 335, Fig. 19
„ „ Lyndon Hall, tree at, v. 1270, Pl. 322
„ „ var. *græca*, v. 1268
„ „ *ithaburensis*, v. 1268
„ „ macrolepis, v. **1268**
„ „ *Pyrami*, v. 1268
„ „ Ungeri, v. **1268**
„ *ægylopifolia*, Persoon, v. 1259
„ *Afares*, Pomel, v. 1271
„ *affinis*, Martens et Galeotti, v. 1312
„ *afghanistanica*, Hort., v. 1320

Quercus—*continued*
„ agrifolia, *Née*, v. **1252**, 1216, 1224
„ „ leaves, etc., v. 1224, 1252, Pl. 338, Fig. 57
„ *aizoon*, Koehne, v. 1289
„ alba, *Linnæus*, v. **1301**, 1216, 1221
„ „ distribution, v. 1301
„ „ hybrids, v. 1301, 1304, 1305, 1307
„ „ leaves, etc., v. 1221, 1301, Pl. 336, Fig. 33
„ „ var. *palustris*, v. 1307
„ alnifolia, *Poech*, v. **1278**, 1216, 1223, 1227
„ „ leaves, etc., v. 1223, 1278, Pl. 338, Fig. 60
„ *alpestris*, Boissier, v. 1323
„ *ambigua*, Humboldt and Bonpland, v. 1312
„ ambigua, *Michaux f.*, v. **1247**, 1248
„ *andegavensis*, Hy, v. 1314 note 2
„ *annulata*, Smith, v. 1328
„ *anodonta*, Borbas, v. 1279
„ apennina, *Lamarck*, ii. **288**
„ *apennina*, Loiseleur, v. 1316
„ *aquatica*, Walter, v. 1235
„ „ var. *heterophylla*, v. 1233
„ armeniaca, *Kotschy*, ii. 289
„ audleyensis (hybrid oak at Audley End), v. **1291**, 1283, Pl. 327
„ „ leaves, etc., v. 1291, Pl. 338, Fig. 59
„ *aurea*, Kitaibel, ii. 293
„ „ Wierzbicki, ii. 293 note 2
„ *australis*, Link, v. 1228, 1322, 1325
„ *austriaca*, Willdenow, v. 1255
„ „ *sempervirens*, Hort. *See* Errata, 1942
„ *Auzandri*, Grenier et Godron, v. 1279
„ *Ballota*, Desfontaines, v. 1282
„ *Baloot*, Griffith, v. 1283
„ *bambusifolia*, Fortune, v. 1329, 1330
„ *Banisteri*, Michaux, v. 1238
„ Bebbiana, *Schneider*, v. 1304 note 4
„ *Benderi*, Baenitz, v. 1248 note 2
„ *berberidifolia*, Liebmann, v. 1252
„ Bertrandi, *Albert et Reynier*, v. 1283 note 3
„ bicolor, *Willdenow*, v. **1307**, 1216, 1220
„ „ hybrid, v. 1307
„ „ leaves, etc., v. 1220, 1307, Pl. 336, Fig. 37
„ „ Lyndon Hall, tree at, v. 1308, Pl. 329
„ *Bivoniana*, Gussone, v. 1292
„ *Boissieri*, Reuter, v. 1325
„ *borealis*, Michaux f., v. 1247
„ Brantii, *Lindley*, v. 1228 and note 3
„ *brevifolia*, Sargent, v. 1230
„ Brutia, *Tenore*, ii. **288**
„ *Buergerii*, Blume, v. 1330
„ *Bungeana*, Forbes, v. 1276
„ *calicina*, Poiret, v. 1281
„ *californica*, Cooper, v. 1241
„ *Calliprinos*, Webb, v. 1279
„ *Cassura*, Don, v. 1297
„ *Castanea*, Emerson, v. 1309
„ „ Willdenow, v. 1310

Quercus—*continued*
„ castaneæfolia, *Meyer*, v. **1271**, 1216, 1220, 1293, 1319
„ „ branchlets and buds, v. 1271, Pl. 78, Fig. 4
„ „ cultivation, v. 1272
„ „ hybrids, v. 1272
„ „ in Algeria, v. 1272, Pl. 323
„ „ leaves, etc., v. 1220, 1271, Pl. 337, Fig. 47
„ Catesbæi, *Michaux*, v. **1218**
„ „ leaves, etc., v. 1218, Pl. 333, Fig. 1
„ Cerris, *Linnæus*, v. **1254**, 1216, 1221, 1225, 1259, 1261, 1264
„ „ Belton, tree at, v. 1257, Pl. 316
„ „ branchlets and buds, ii. Pl. 78, Fig. 3; v. 1254
„ „ cultivation, v. 1256
„ „ distribution, v. 1256
„ „ hybrids, v. 1255, 1260, 1263, 1264 and note 2, 1265 note
„ „ leaves, etc., v. 1221, 1254, Pl. 335, Fig. 22
„ „ Mamhead Park, trees at, v. 1257, Plates 317 and 318
„ „ remarkable trees, v. 1257
„ „ timber, v. 1258
„ „ var. austriaca, v. **1255**
„ „ cana major, v. 1261
„ „ *dentata*, v. 1261
„ „ *fulhamensis*, v. 1261
„ „ laciniata, v. **1255**
„ „ *Lucombeana*, v. 1259
„ „ pendula, v. **1255**
„ „ pseudocerris, v. **1255**
„ „ variegata, v. **1255**
„ *chinensis*, Bunge, v. 1276
„ *Chinquapin*, Pursh, v. 1311
„ chrysolepis, *Liebmann*, v. **1299**, 1216, 1224
„ „ leaves, etc., v. 1224, 1299, Pl. 338, Fig. 61
„ „ var. vaccinifolia, v. **1299**
„ cinerea, *Michaux*, v. **1230**, 1216, 1217
„ „ leaves, etc., v. 1217, 1230, Pl. 339, Fig. 72
„ coccifera, *Linnæus*, v. **1279**, 1216, 1224, 1253
„ „ leaves, etc., v. 1224, 1279, Pl. 338, Fig. 62
„ „ var. Auzandri, v. **1279**
„ „ „ leaves, etc., v. 1279, Pl. 339, Fig. 65
„ „ *Calliprinos*, v. 1279
„ „ pseudococcifera, v. **1279**
„ coccinea, *Muenchhausen*, v. **1247**, 1216, 1218, 1234, 1243
„ „ hybrids, v. 1248
„ „ leaves, etc., v. 1218, 1247, Pl. 333, Fig. 6
„ „ remarkable trees, v. 1249
„ „ var. *ambigua*, v. 1247
„ „ *nigrescens*, v. 1239
„ „ *splendens*, v. 1248
„ „ *tinctoria*, v. 1239

Quercus—*continued*
„ conferta, *Kitaibel*, v. **1316**, 1216, 1222, 1227; vii. 1676 note 2
„ „ branchlets and buds, ii. Pl. 78, Fig. 5; v. 1316
„ „ cultivation, v. 1317
„ „ distribution, v. 1316
„ „ hybrids, v. 1316
„ „ leaves, etc., v. 1222, 1316, Pl. 335, Fig. 26
„ „ Orton Hall, tree at, v. 1318, Pl. 331
„ *confertifolia*, Hort., v. 1254
„ *Cookii*, Loudon, v. 1228, 1282
„ crassifolia, *Humboldt and Bonpland*, v. 1254, 1313 note
„ crassipes, *Humboldt and Bonpland*, v. **1254**, 1216, 1223
„ „ leaves, etc., v. 1223, 1254, Pl. 335, Fig. 24
„ *crassipocula*, Torrey, v. 1299
„ *crinita*, Lamarck, v. 1254
„ *crispata*, Steven, ii. 295 note
„ *crispula*, Blume, v. 1327 and note, 1328
„ „ var. *grosseserrata*, v. 1327
„ cuneata, *Wangenheim*, v. **1237**, 1216, 1218
„ „ hybrid, v. 1229
„ „ leaves, etc., v. 1218, 1237, Pl. 334, Fig. 14
„ *cupressoides*, Hort., ii. 284
„ cuspidata, *Thunberg*, v. **1332**, 1217, 1223
„ „ leaves, etc., v. 1223, 1332, Pl. 338, Fig. 51
„ „ variegata, v. 1333
„ *cypria*, Jaubert et Spach, v. 1278
„ *Daimio*, Koch, v. 1277
„ *Dalechampii*, Tenore, ii. 295
„ *dealbata*, Wallich, v. 1228 and note 4, 1298
„ densiflora, *Hooker and Arnott*, v. **1331**, 1215, 1217, 1224
„ „ leaves, etc., v. 1224, 1331, Pl. 338, Fig. 54
„ „ var. echinoides, v. **1331**
„ dentata, *Thunberg*, v. **1277**, 1216, 1222
„ „ leaves, etc., v. 1222, 1277, Pl. 337, Fig. 43
„ „ var. M'Cormickii, v. 1277 note
„ „ oxyloba, v. 1277 note
„ „ pinnatifida, v. **1277**
„ *digitata*, Sudworth, v. 1237
„ *discolor*, Aiton, v. 1239
„ „ Spach, v. 1237
„ *dschorochensis*, C. Koch, ii. 293 note 3
„ *echinacea*, Torrey, v. 1331
„ *echinata*, Salisbury, v. 1254
„ *elongata*, Willdenow, v. 1237
„ *Esculus*, v. 1311
„ *exoniensis*, Loddiges, v. 1259
„ *expansa*, Poiret, v. 1281
„ *faginea*, Lamarck, v. 1323
„ *falcata*, Michaux, v. 1237
„ *falkenbergensis*, ii. 289
„ *farnetto*, Tenore, v. 1316
„ *fastigiata*, Lamarck, ii. 284

Quercus—*continued*
„ *ferruginea*, Michaux f., v. 1236
„ *Fontanesii*, Gussone, v. 1263
„ *Fordii*, Koch, v. 1282
„ *fruticosa*, Brotero, v. 1324
„ *fulvescens*, Kellogg, v. 1299
„ Gambelli, *Nuttall*, v. 1225 note 4
„ „ leaves, etc., v. 1225 note 4, Pl. 333, Fig. 7
„ Garryana, *Hooker*, v. 1225, 1241
„ *genuensis*, Hort. Kew, v. 1313
„ glabra, *Thunberg*, v. **1332**, 1217, 1222, 1228
„ „ leaves, etc., v. 1222, 1332, Pl. 338, Fig. 50
„ „ var. *latifolia*, v. 1332
„ glabrescens, *Bentham*, v. **1300**, 1216, 1223
„ „ leaves, etc., v. 1223, 1300, Pl. 339, Fig. 67
„ glandulifera, *Blume*, v. **1327**, 1216, 1219
„ „ leaves, etc., v. 1219, 1327, Pl. 335, Fig. 27
„ *glandulifera*, Masters, v. 1289
„ glauca, *Thunberg*, v. **1328**, 1217, 1223
„ „ leaves, etc., v. 1223, 1328, Pl. 338, Fig. 52
„ „ var. lacera, v. **1329**
„ *græca*, Kotschy, v. 1268
„ *Gramuntia*, Linnæus, v. 1228, 1281, 1282
„ *Grisebachii*, Kotschy, v. 1273
„ grosseserrata, *Blume*, v. **1327**, 1216, 1220
„ „ leaves, etc., v. 1327, Pl. 337, Fig. 49
„ *Guerangeri*, Hy, v. 1314 note 2
„ Haas, *Kotschy*, ii. **287**
„ „ leaves, etc., ii. 287, Pl. 79, Fig. 7
„ *hæmisphærica*, Willdenow, v. 1235
„ *Hartwegi*, Bentham, v. 1312, 1313
„ *Hartwissiana*, Steven, ii. 294 note
„ heterophylla, *Michaux f.*, v. **1233**, 1217, 1229
„ „ leaves, etc., v. 1217, 1233, Pl. 334, Fig. 16
„ *Hindsii*, Bentham, v. 1306
„ *hispanica*, Lamarck, v. 1261 note
„ „ var. *α*, chêne de Gibraltar, v. 1261
„ „ *β*, chêne à feuilles d'Ægilops, v. 1259
„ „ *γ*, chêne Turnère, v. 1288
„ *Hollickii*, Schneider, v. 1233, 1234 note 4
„ *humilis*, Lamarck, v. 1324
„ „ Walter, v. 1230
„ *hungarica*, Hubeny, v. 1316
„ *hybrida nana*, Loudon, v. 1288, 1289
„ Ilex, *Linnæus*, v. **1281**; iii. 646 note; v. 1216, 1223, 1225, 1228
„ „ cultivation, v. 1285
„ „ distribution, v. 1283
„ „ Holkham, grove at, v. 1287, Pl. 325
„ „ „ tree at, v. 1287, Pl. 324
„ „ hybrids, v. 1279, 1283, 1288 and note, 1291
„ „ in England, v. 1285

Quercus Ilex, *Linnæus—continued*
„ „ in Ireland, v. 1288
„ „ in Scotland, v. 1287
„ „ in Wales, v. 1287
„ „ leaves, etc., v. 1223, 1281, Pl. 339, Fig. 69
„ „ Mamhead, trees at, v. 1285-1286, Pl. 326
„ „ remarkable trees, v. 1285
„ „ varieties, v. 1281
„ „ var. avellanæformis, v. 1282
„ „ Ballota, v. **1282**
„ „ crispa, v. **1282**
„ „ *diversifolia*, v. 1262
„ „ Fordii, v. **1282**
„ „ Genabii, v. **1283**
„ „ Gramuntia, v. **1282**, 1228 note 6
„ „ „ leaves, etc., v. 1282, Pl. 339, Fig. 68
„ „ latifolia, v. 1283
„ „ *phillyræoides*, v. 1283 note 2, 1298
„ „ Smilax, v. **1282**
„ Ilex × Q. sessiliflora (?). *See* Quercus audleyensis
„ *ilicifolia*, Salisbury, v. 1281
„ ilicifolia, *Wangenheim*, v. **1238**, 1218
„ „ hybrid, v. 1229
„ „ leaves, etc., v. 1218, 1238, Pl. 334, Fig. 13
„ imbricaria, *Michaux*, v. **1231**, 1216, 1217, 1232 note 1, 1234
„ „ hybrids, v. 1229, 1231, 1233
„ „ leaves, etc., v. 1217, 1231, Pl. 339, Fig. 73
„ *imbricaria* × *Q. coccinea*, Engelmann, v. 1232
„ imbricaria × Q. marylandica, *Sargent*, v. 1231 note 2
„ „ × Q. palustris, *Engelmann*, v. 1231 note 4
„ „ × Q. Phellos, *Zabel*, v. 1229 note 1
„ „ × Q. rubra, *Bush*, v. 1231, note 3
„ *imbricaria* × *Q. velutina*, Sargent, v. 1232
„ incana, *Roxburgh*, v. **1298**, 1216, 1223, 1228 note 4
„ „ leaves, etc., v. 1223, 1298, Pl. 335, Fig. 18
„ infectoria, *Olivier*, v. **1325**, 1216, 1222, 1324
„ „ galls, v. 1326
„ „ var. Boissieri, v. **1325**, 1326
„ „ petiolaris, v. **1325**
„ intermedia, *Boenninghausen*, ii. 288. *See* Errata, 1938
„ *intermedia*, Don, ii. 288
„ *ithaburensis*, Decaisne, v. 1268
„ Jackiana, *Schneider*, v. 1307 note 2
„ kabylica, *Trabut*, v. 1272
„ Kelloggii, *Newberry*, v. **1241**, 1216, 1218
„ „ hybrid, v. 1241
„ „ leaves, etc., v. 1218, 1241, Pl. 333, Fig. 2

Quercus—*continued*
„ *lacera*, Blume, v. 1329
„ *lanata*, Don, var. *incana*, v. 1298
„ lanuginosa, *Lamarck*, ii. **294**; v. 1216, 1222, 1264 note 1, 1328 note. *See also* Oak, Pubescent, *and* Errata, 1938
„ „ var. Dalechampii, ii. **295**
„ „ „ leaves, etc., ii. 295, Pl. 79, Fig. 14
„ „ dissecta, ii. **295**
„ „ Hartwissiana, ii. **294**
„ laurifolia, *Michaux*, v. 1232 note 1, Pl. 339, Fig. 74
„ Leana, *Nuttall*, v. **1232**, 1217, 1234
„ „ leaves, etc., v. 1217, 1232, Pl. 334, Fig. 10
„ Libani, *Olivier*, v. **1274**, 1216, 1219, 1227
„ „ leaves, etc., v. 1219, 1274, Pl. 337, Fig. 39
„ lobata, *Née*, v. **1306**, 1216, 1222
„ „ leaves, etc., v. 1222, 1306, Pl. 336, Fig. 30
„ *longiglanda*, Frémont, v. 1306
„ *longipes*, Steven, ii. 285
„ Lucombeana, *Sweet*, v. **1259**, 1220
„ „ Castle Hill, Devon, tree at, v. 1265, Pl. 320
„ „ Cornwall, trees in, v. 1265
„ „ Killerton, tree at, v. 1265, Pl. 321
„ „ leaves, etc., v. 1220, 1259, Pl. 335, Fig. 23
„ „ rate of growth, v. 1260 note 3
„ „ remarkable trees, v. 1264
„ „ seedlings, v. 1260, 1266
„ „ var. crispa, v. **1261**, 1260 note 3, 1267
„ „ dentata, v. **1261**
„ „ diversifolia, v. **1262**
„ „ „ leaves, etc., v. 1263, Pl. 339, Fig. 71
„ „ fulhamensis, v. **1261**
„ „ „ Kew, tree at, v. 1262, Pl. 319
„ „ „ leaves, etc., v. 1262, Pl. 335, Fig. 21
„ „ fulhamensis latifolia, v. **1262**
„ „ heterophylla, v. **1261**, 1263
„ „ incisa, v. **1261**, 1260 note 3
„ „ suberosa, v. **1261**, 1260 note 3, 1267
„ „ „ leaves, etc., v. 1261, Pl. 339, Fig. 64
„ *lusitanica*, Boissier, v. 1325
„ lusitanica, *Lamarck*, v. **1322**, 1216, 1220, 1222, 1227, 1291
„ „ cultivation, v. 1325
„ „ distribution, v. 1324
„ „ hybrids, v. 1314, 1325
„ „ leaves, etc., v. 1222, 1323, Pl. 335, Fig. 25
„ „ sub-species *bætica*, v. 1318
„ „ „ *orientalis*, v. 1325

Quercus lusitanica, *Lamarck*—*continued*
„ „ var. alpestris, v. **1323**
„ „ Broteri, v. **1323**, 1324, 1325
„ „ faginea, v. **1323**
„ „ humilis, v. **1324**
„ lyrata, *Walter*, v. **1303**, 1216, 1221
„ „ leaves, etc., v. 1221, 1303, Pl. 336, Fig. 31
„ macedonica, *A. de Candolle*, v. **1273**, 1216, 1219, 1227
„ „ leaves, etc., v. 1219, 1273, Pl. 337, Fig. 41
„ macranthera, *Fischer et Meyer*, v. **1322**; ii. 295 note; v. 1216, 1221, 1227
„ „ leaves, etc., v. 1221, 1322, Pl. 337, Fig. 42
„ macrocarpa, *Michaux*, v. **1304**, 1216, 1222
„ „ branchlets with corky wings, v. 1304
„ „ hybrid, v. 1301, 1304, 1305
„ „ leaves, etc., v. 1222, 1304, Pl. 336, Fig. 29
„ *macrolepis*, Kotschy, v. 1268
„ *marginata*, Blume, v. 1330
„ marylandica, *Muenchhausen*, v. **1236**, 1216, 1218
„ „ hybrids, v. 1229, 1231
„ „ leaves, etc., v. 1218, 1236, Pl. 334, Fig. 11
„ *Mesto*, Boissier, v. 1279
„ *mexicana*, Bentham, v. 1254
„ Michauxii, *Nuttall*, v. **1220**, 1309
„ „ leaves, etc., v. 1220, Pl. 336, Fig. 34
„ microcarya, *Small*, v. 1235 note 2
„ Mirbeckii, *Durieu*, v. **1318**; iii. 473; v. 1216, 1220, 1227, 1293, 1309, 1321
„ „ branchlets and buds, ii. Pl. 78, Fig. 6; v. 1318
„ „ cultivation, v. 1320
„ „ distribution, v. 1319
„ „ Hursley Park, tree at, v. 1320, Pl. 332
„ „ hybrids, v. 1263 note 2, 1319
„ „ in Algeria, v. 1319, Pl. 323
„ „ leaves, etc., v. 1220, 1318, Pl. 337, Fig. 44
„ „ var. tlemcensis, v. 1319
„ mongolica, *Fischer*, v. **1328** note, 1228, Pl. 337, Fig. 48
„ *montana*, Willdenow, v. 1309
„ Morehus, *Kellogg*, v. 1241
„ Morisii, *Borzi*, v. 1283 note 4
„ Muehlenbergii, *Engelmann*, v. **1310**, 1216, 1221
„ „ leaves, etc., v. 1221, 1311, Pl. 336, Fig. 35
„ „ var. *humilis*, v. 1311
„ *nana*, Sargent, v. 1238
„ *nigra*, Du Roi, v. 1239
„ nigra, *Linnæus*, v. **1235**, 1216, 1217, 1218 note, 1234

Quercus nigra, *Linnæus—continued*
„ „ leaves, etc., v. 1217, 1235, Pl. 334, Fig. 9
„ „ Lyndon Hall, tree at, v. 1236, Pl. 312
„ „ var. *aquatica*, v. 1235
„ „ *β* (Linnæus), v. 1236
„ „ (Cooper), v. 1233
„ „ *digitata*, v. 1237
„ „ *latifolia*, v. 1236
„ „ *tridentata*, v. 1231 note 2
„ *nigra*, Wangenheim, v. 1236
„ *nudinervis*, Liebmann, v. 1312
„ numidica, *Trabut*, v. 1272
„ *obovata*, Bunge, v. 1277
„ obtusata, *Humboldt and Bonpland*, v. **1312**, 1216, 1221
„ „ leaves, etc., v. 1221, 1312, Pl. 333, Fig. 4
„ „ var. Hartwegi, v. 1313
„ „ pandurata, v. 1313
„ *obtusifolia*, Don, v. 1297
„ *occidentalis*, Gay, v. 1292
„ *olivæformis*, Michaux f., v. 1304
„ *ostryæfolia*, Borbas, v. 1273
„ *oxyadenia*, Torrey, v. 1252
„ pagodæfolia, *Ashe*, v. **1218**, 1237 note 2
„ „ leaves, etc., v. 1237 note 2, Pl. 334, Fig. 12
„ palustris, *Muenchhausen*, v. **1250**, 1216, 1219, 1229, 1243, 1251
„ „ cultivation, v. 1250
„ „ hybrids, v. 1229, 1231
„ „ leaves, etc., v. 1219, 1250, Pl. 334, Fig. 17
„ „ Windsor Park, trees in, v. 1251, Pl. 315
„ *pandurata*, Humboldt and Bonpland, v. 1312
„ *pannonica*, Booth, v. 1316, 1318
„ *parvula*, Greene, v. 1253
„ pedunculata, *Ehrhart*, ii. **282**, 293, 294, 297, 335, 336; v. 1216, 1221, 1225, 1317, 1326
„ „ distribution, etc. *See* Oak, Common
„ „ var. argenteo-marginata, ii. 286
„ „ argenteo-picta, ii. 286
„ „ *asplenifolia*, ii. 285
„ „ atropurpurea, ii. 286
„ „ atrosanguinea, ii. 286
„ „ aurea, ii. 285
„ „ aureo-bicolor, ii. 286
„ „ aureo-tricolor, ii. 286
„ „ aureo-variegata, ii. 286
„ „ bullata, ii. 285
„ „ cochleata, ii. 285
„ „ *comptoniæfolia*, ii. 285
„ „ Concordia, ii. **285**
„ „ crispa, ii. 285
„ „ *cucullata*, ii. 285
„ „ cuprea, ii. **286**
„ „ *dissecta*, ii. 285
„ „ *diversifolia*, ii. 285

Quercus pedunculata, *Ehrhart—continued*
„ „ var. fastigiata, ii. **284**
„ „ *Fennessi*, ii. 285
„ „ *Fenzleyi*, ii. 285
„ „ filicifolia, ii. **285**
„ „ „ leaves, ii. 285, Pl. 79, Fig. 6
„ „ heterophylla, ii. **285**
„ „ „ leaves, ii. 285, Pl. 79, Fig. 5
„ „ hyemalis, ii. **285**
„ „ *incisa*, ii. 285
„ „ *laciniata*, ii. 285
„ „ nigra, ii. 286
„ „ nigricans, ii. 286
„ „ *pectinata*, ii. 285
„ „ pendula, ii. **284**
„ „ *pinnata*, ii. 285
„ „ purpurascens, ii. **285**
„ „ purpurea, ii. 286
„ „ rubrinervia, ii. 286
„ „ *salicifolia*, ii. 285
„ „ sanguinea, ii. 286
„ „ scolopendrifolia, ii. **285**
„ „ „ leaves, ii. 285, Pl. 79, Fig. 3
„ „ *taraxacifolia*, ii. 285
„ „ tardissima, ii. **286**
„ „ variegata, ii. **286**
„ persica, *Jaubert et Spach*, v. 1271
„ *Pfaeffingeri*, var. *cypria*, v. 1326 note 1
„ Phellos, *Linnæus*, v. **1228**, 1216, 1217, 1230, 1233, 1234
„ „ hybrids, v. 1229
„ „ leaves, v. 1217, 1229, Pl. 339, Fig. 75
„ „ var. *brevifolia*, v. 1230
„ „ *humilis*, v. 1230
„ „ *imbricaria*, v. 1231
„ „ *sericea*, v. 1230
„ „ *subimbricaria*, v. 1229 note 1
„ *Phellos* × *Q. coccinea*, Engelmann, v. 1233
„ Phellos × Q. ilicifolia, *Peters*, v. 1229 note 3
„ „ × Q. marylandica, *Sargent*, v. 1229 note 2
„ „ × Q. palustris, *Schneider*, v. 1229 note 5
„ *Phellos* × *Q. rubra*, v. 1233
„ „ × *Q. velutina*, Sargent, v. 1233
„ phillyræoides, *A. Gray*, v. **1298**, 1216, 1224
„ „ leaves, etc., v. 1224, 1298, Pl. 339, Fig. 66
„ *phullata*, Buchanan-Hamilton, v. 1328
„ *pinnatifida*, Franchet et Savatier, v. 1277
„ *platanoides*, Sudworth, v. 1307
„ pontica, *Koch*, v. **1321**, 1216, 1220
„ „ leaves, etc., v. 1220, 1321, Pl. 339, Fig. 70
„ prinoides, *Willdenow*, v. **1311**, 1216, 1220
„ „ leaves, etc., v. 1220, 1311, Pl. 336, Fig. 38

Quercus—*continued*
„ Prinus, *Linnæus*, v. **1309**, 1216, 1220
„ „ leaves, etc., v. 1220, 1309, Pl. 336, Fig. 36
„ „ timber, v. 1310
„ „ var. *acuminata*, v. 1310
„ „ *bicolor*, v. 1307
„ „ *Chincapin*, v. 1311
„ „ *discolor*, v. 1307
„ „ *humilis*, v. 1311
„ „ *platanoides*, v. 1307
„ „ *pumila*, v. 1311
„ „ *tomentosa*, v. 1307
„ *Prinus*, Masters, v. 1318
„ *pseudococcifera*, Desfontaines, v. 1279 note 2
„ „ Labillardière, v. 1279
„ *pseudoilex*, Chatin, v. 1281
„ *Pseudosuber*, Desfontaines, v. 1263 note 2, 1319
„ Pseudosuber, *Santi*, v. **1263**, 1264 and notes
„ „ var. *ægylopifolia*, v. 1259
„ „ *gibraltarica*, v. 1261
„ *pseudoturneri*, Schneider, v. 1289
„ *pubescens*, Willdenow, ii. 294
„ pumila, *Walter*, v. 1230 note
„ Pyrami, *Kotschy*, v. **1268**
„ „ leaves, etc., v. 1268, Pl. 335, Fig. 20
„ *pyramidalis*, Gmelin, ii. 284
„ *pyrenaica*, Willdenow, v. 1313
„ *Quexigo*, Widdrington, v. 1324
„ *Rechini*, Hy, v. 1314 note 2
„ *regia*, Lindley, v. 1274 note 3
„ *Robur*, Linnæus, ii. 282, 287; Errata, 1937
„ „ sub-sp. *pedunculata*, ii. 282
„ „ „ „ var. *Haas*, ii. 287
„ „ „ *sessiliflora*, ii. 291
„ „ „ „ var. *lanuginosa*, ii. 294
„ „ var. *pedunculata*, ii. 282
„ „ *sessiliflora*, ii. 291
„ *Robur*, Miller, ii. 291
„ *rotundifolia*, Lamarck, v. 1282
„ *rubra*, Bentham, v. 1241
„ rubra, *Linnæus*, v. **1242**, 1216, 1218, 1225, 1229, 1234
„ „ cultivation, v. 1244
„ „ distribution, v. 1243
„ „ hybrids, v. 1229, 1231, 1248
„ „ Kedleston Hall, tree at, v. 1245, Pl. 314
„ „ leaves, etc., v. 1218, 1242, Pl. 333, Figs. 3 and 8
„ „ on the Continent, v. 1244, 1246
„ „ remarkable trees, v. 1245
„ „ timber, v. 1246
„ „ var. *dissecta*, v. 1250
„ „ *hispanica*, v. 1237
„ „ *macrophylla*, v. 1240
„ „ *nana*, v. 1238
„ „ *ramosissima*, v. 1250
„ *Rudkini*, Britton, v. 1229 note 2

Quercus—*continued*
„ *rugosa*, Née, v. 1313 note
„ „ *genuensis*, Smith, v. 1313
„ *sanguinea*, Bechstein, ii. 286
„ Schneckii, *Britton*, v. **1251**, 1216, 1219, 1243
„ „ leaves, etc., v. 1251, Pl. 334, Fig. 15
„ *Schochiana*, Zabel, v. 1229 note 5
„ sclerophylla, v. 1228
„ semecarpifolia, *Smith*, v. **1297**, 1216, 1219
„ „ leaves, etc., v. 1219, 1297, Pl. 338, Fig. 53
„ *sempervirens*, Miller, v. 1281
„ serrata, *Thunberg*, v. **1275**, 1216, 1219
„ „ leaves, etc., v. 1219, 1275, Pl. 337, Fig. 46
„ „ var. *chinensis*, v. 1276
„ „ *pendula*, v. 1275
„ *serratifolia*, v. 1324
„ sessiliflora, *Salisbury*, ii. **291**, 296, 297, 335, 337; v. 1216, 1221, 1225, 1316
„ „ distribution, etc. *See* Oak, Sessile
„ „ var. afghanistanensis, ii. **292**
„ „ „ leaves, ii. 292, Pl. 79, Fig. 11
„ „ alnoides, ii. **293**
„ „ „ leaves, ii. 293, Pl. 79, Fig. 12
„ „ aurea, ii. **293**
„ „ cochleata, ii. **292**
„ „ dschorochensis, ii. **293**
„ „ „ leaves, ii. 293, Pl. 79, Fig. 10
„ „ falkenbergensis, ii. **293**
„ „ *geltoviana*, ii. 292
„ „ iberica, ii. **293**
„ „ laciniata, ii. **292**
„ „ longifolia, ii. **292**
„ „ Louetti, ii. 292
„ „ *macrophylla*, ii. 292
„ „ mespilifolia, ii. **292**
„ „ „ leaves, ii. 292, Pl. 79, Fig. 9
„ „ *pannonica*, v. 1318 note 3
„ „ pinnata, ii. **293**
„ „ *pubescens*, ii. 294
„ „ purpurea, ii. **293**
„ „ rubicunda, ii. **293**
„ „ sublobata, ii. **292**
„ „ *Tenorei*, ii. 295
„ „ variegata, ii. **293**
„ sessiliflora (?) × Q. Ilex. *See* Quercus audleyensis
„ *sessilis*, Ehrhart, ii. 291; Errata, 1938
„ *Smilax*, Linnæus, v. 1282
„ *sonomensis*, A. de Candolle, v. 1241
„ *squarrosa*, Kotschy, v. 1274
„ stellata, *Wangenheim*, v. **1222**
„ „ leaves, etc., v. 1222, Pl. 336, Fig. 32
„ *stolonifera*, Lapeyrouse, v. 1313

Quercus—*continued*
„ Suber, *Linnæus*, v. **1292**, 1216, 1223, 1228, 1264 note 1
„ „ cork, v. 1296
„ „ cultivation, v. 1295
„ „ distribution, v. 1293
„ „ hybrids, v. 1261, 1263 and note 2, 1264 note 2, 1265 note, 1272, 1319
„ „ in Algeria, v. 1293
„ „ in England, v. 1295
„ „ in France and Spain, v. 1293
„ „ in Ireland, v. 1296
„ „ in Italy, v. 1295
„ „ in Portugal, v. 1294
„ „ in Scotland, v. 1296
„ „ in Wales, v. 1296
„ „ leaves, etc., v. 1223, 1292, Pl. 339, Fig. 63
„ „ Mamhead, tree at, v. 1295, Pl. 328
„ „ timber, v. 1296
„ „ var. occidentalis, v. **1292**, 1216 note 3
„ *suberosa*, Salisbury, v. 1292
„ *sublobata*, Kitaibel, ii. 292
„ *Tauzin*, Persoon, v. 1313
„ *Tchihatchewi*, Kotschy, v. 1274 note 3
„ *texana*, Buckley, v. 1251 note 1
„ „ Sargent, v. 1251 and notes 1 and 2
„ Thomasii, *Tenore*, ii. **288**
„ „ leaves, ii. 288, Pl. 79, Fig. 4
„ *tinctoria*, Michaux, v. 1239
„ „ var. *californica*, v. 1241
„ Toza, *Bosc*, v. **1313**, 1216, 1222, 1227, 1317
„ „ Clonmannon, tree at, v. 1315, Pl. 330
„ „ cultivation, v. 1315
„ „ distribution, v. 1314
„ „ hybrids, v. 1314
„ „ leaves, etc., v. 1222, 1314, Pl. 335, Fig. 28
„ *Trabuti*, Hy, v. 1314 note 2
„ *tridentata*, Engelmann, v. 1231 note 2
„ *triloba*, Michaux, v. 1237
„ Turneri, *Willdenow*, v. **1288**, 1219, 1222, 1283
„ „ remarkable trees, v. 1290
„ „ var. pseudoturneri, v. **1289**, 1220 note, 1290
„ „ „ leaves, etc., v. 1289, Pl. 337, Fig. 45
„ *uliginosa*, Wangenheim, v. 1235
„ *Ungeri*, Kotschy, v. 1268
„ *valentina*, Cavanilles, v. 1323
„ *Vallonea*, Kotschy, v. 1268
„ variabilis, *Blume*, v. **1276**, 1216, 1219
„ „ acorn-cups used for dyeing purposes, v. 1276
„ „ leaves, etc., v. 1219, 1276, Pl. 337, Fig. 40
„ velutina, *Lamarck*, v. **1239**, 1216, 1218, 1234
„ „ bark, v. 1240
„ „ Bayfordbury, tree at, v. 1240, Pl. 313
Quercus velutina, *Lamarck*—*continued*
„ „ hybrids, v. 1229, 1231
„ „ leaves, etc., v. 1218, 1239, Pl. 333, Fig. 5
„ „ remarkable trees, v. 1240
„ „ timber, v. 1240
„ „ var. missouriensis, v. **1239**
„ *veneris*, Kerner, v. 1326 note 1
„ *vesca*, Kotschy, v. 1274 note 3
„ Vibrayeana, *Franchet et Savatier*, v. **1329**, 1217, 1224
„ „ leaves, etc., v. 1224, 1329, Pl. 338, Fig. 55
„ *villosa*, Hort., v. 1233
„ *virens*, Aiton, v. 1225
„ virginiana, *Miller*, v. 1225
„ Wislizeni, *A. de Candolle*, v. **1253**, 1216, 1224
„ „ hybrid, v. 1241
„ „ leaves, etc., v. 1224, 1253, Pl. 338, Fig. 58
„ *yunnanensis*, Franchet, v. 1277 and note
Quickbeam, vi. 1580 note, and Errata, 1942
Quicken pear tree, i. 148

Rassamala tree, iii. 505 note 2
Rauli tree, iii. 555
Raxopitys, Nelson (Senilis), iii. 494
Redwood, iii. **688**. *See* Sequoia sempervirens
Reseda Luteola. *See* Plants, Miscellaneous
Resin, v. 1012, 1093, 1118
Retinispora, Siebold and Zuccarini, v. 1146
„ forms, explanation of origin of, v. 1191
Retinispora andelyensis, Carrière, v. 1211
„ *dubia*, Carrière, i. 192
„ *Ellwangeriana*, Carrière, i. 192
„ *filicoides*, Veitch, v. 1186
„ *filifera*, Standish, v. 1192
„ *juniperoides*, Carrière, i. 198
„ *leptoclada*, Gordon, v. 1211
„ *lycopodioides*, Standish, v. 1186
„ *monstrosa*, Gordon, v. 1186
„ *Nobleana*, Beissner, v. 1186
„ *obtusa*, Siebold and Zuccarini, v. 1185
„ *pisifera*, Siebold and Zuccarini, v. 1190
„ *plumosa*, Veitch, v. 1191
„ *squarrosa*, Siebold and Zuccarini, v. 1190
„ *tetragona aurea*, Kent, v. 1186
Retinospora, v. 1146 note 2
Rhamnus carpinifolius, Pallas, iv. 915
„ *ulmoides*, Güldenstadt, iv. 915
Rhapis flabelliformis, *Aiton*, vii. 1690 note 2
Rhus obscura, Bieberstein, ii. 438
Rhytisma acerinum. *See* Fungi
Ribes sanguineum, v. 1024 note 3
"Rie" wood, iii. 595
Robinia, Linnæus, vi. **1496**
Robinia *ambigua*, Poiret, vi. 1500
„ bella-rosea, *Nicholson*, vi. **1500**
„ Boyntoni, *Ashe*, vi. 1508 note 3
„ coloradensis, *Dode*, vi. **1501**
„ *coluteoides*, Koch, vi. 1499

Robinia—*continued*
„ dubia, *Foucault*, vi. **1500**
„ *echinata*, Miller, vi. 1500 note 1
„ *fragilis*, Salisbury, vi. 1497
„ *glutinosa*, Sims, vi. 1507
„ hispida, *Linnæus*, vi. **1508**, 1497
„ „ var. *inermis*, vi. 1508
„ „ macrophylla, vi. **1508**
„ „ *rosea*, vi. 1508 note 3
„ „ typica, vi. **1508**
„ *hispida-rosea*, Loiseleur, vi. 1508
„ Holdtii, *Beissner*, vi. **1500**
„ „ var. Britzensis, vi. **1501**
„ *intermedia*, Soulange-Bodin, vi. 1500
„ Kelseyi, *Cowell*, vi. **1508**
„ *macrophylla*, Schrader, vi. 1508
„ neomexicana, *Gray*, vi. **1506**, 1497
„ „ hybrid, vi. 1500
„ Pseudacacia, *Linnæus*, vi. **1497**, 1496
„ „ America, trunk of tree in, vi. 1501, Pl. 353
„ „ cultivation, vi. 1502
„ „ distribution, vi. 1501
„ „ Frogmore, tree at, vi. 1504, Pl. 351
„ „ hybrids, vi. 1500
„ „ introduction, vi. 1501
„ „ remarkable trees, vi. 1504
„ „ The Mote, Maidstone, tree at, vi. 1504, Pl. 352
„ „ timber, vi. 1505
„ „ var. amorphaefolia, vi. 1499
„ „ argenteo-variegata, vi. 1499
„ „ aurea, vi. 1499
„ „ aureo-variegata, vi. 1499
„ „ Bessoniana, vi. **1499**
„ „ bullata, vi. **1499**
„ „ crispa, vi. **1499**
„ „ Decaisneana, vi. **1500**
„ „ dissecta, vi. 1499
„ „ *fastigiata*, vi. 1498
„ „ *flore luteo*, vi. 1500
„ „ inermis, vi. **1499**
„ „ linearis, vi. 1499
„ „ lutea, vi. **1500**
„ „ monophylla, vi. **1499**
„ „ myrtifolia, vi. 1499
„ „ pendula nova, vi. **1499**
„ „ purpurea, vi. 1499
„ „ pyramidalis, vi. **1498**
„ „ semperflorens, vi. **1500**
„ „ sophoraefolia, vi. 1499
„ „ *stricta*, vi. 1498
„ „ tortuosa, vi. **1499**
„ „ tragacanthoides, vi. 1499
„ „ Ulriciana, vi. **1498**
„ „ umbraculifera, vi. **1499**
„ viscosa, *Ventenat*, vi. **1507**, 1497
„ „ hybrid, vi. 1500
Roble negro tree, v. 1315
„ Pellin tree, iii. 554
Robore tree, v. 1264
Rogn tree, vi. 1579
Rose Acacia, vi. **1508**. *See* Robinia hispida
„ maloes, iii. 505
Rospidios, A. de Candolle, iv. 995
Rowan, vi. **1576**. *See* Pyrus Aucuparia

Sabina, Haller, vi. 1395
Sabina barbadensis, Small, vi. 1437
„ *Cabiancæ*, Antoine, vi. 1430
„ *chinensis*, Antoine, vi. 1430
„ *excelsa*, Antoine, vi. 1446
„ *flaccida*, Antoine, vi. 1426
„ *isophyllos*, Antoine, vi. 1446
„ *Lycia*, Antoine, vi. 1424
„ *officinalis*, Garcke, vi. 1443
„ *pachyphlæa*, Antoine, vi. 1429
„ *phœnicia*, Antoine, vi. 1424
„ *plochyderma*, Antoine, vi. 1429
„ *polycarpos*, Antoine, vi. 1446
„ *recurva*, Antoine, vi. 1419
„ *scopulorum*, Rydberg, vi. 1436
„ *squamata*, Antoine, vi. 1420
„ *virginiana*, Antoine, vi. 1435
Sabino tree, i. 175
Saikachi tree, vi. 1516
Salisburia, Smith, i. 55
Salisburia adiantifolia, Smith, i. 56
Salix, Linnæus, vii. **1743**
„ section Chamætia, Dumortier, vii. 1743 note 1
Salix alba, *Linnæus*, vii. **1759**, 1745, 1763, 1768
„ „ distribution, etc. *See* Willow, White
„ „ var. argentea, vii. **1760**
„ „ *cærulea*, vii. 1763 and note 5
„ „ *leucophylla*, vii. 1760
„ „ *regalis*, vii. 1760
„ „ *splendens*, vii. 1760
„ „ *tristis*, vii. 1750 note 3
„ „ *vitellina*, vii. 1768
„ *alopecuroides*, Tausch, vii. 1756 note 2
„ *annularis*, Forbes, vii. 1750
„ aurita, vii. 1746
„ „ hybrid, vii. 1746
„ babylonica, *Linnæus*, vii. **1749**, 1744, 1771 note 4
„ „ distribution, etc. *See* Willow, Weeping
„ „ var. annularis, vii. **1750**
„ „ *aurea*, vii. 1769
„ „ *crispa*, vii. 1750
„ „ pekinensis, vii. 1752
„ „ *Salamonii*, vii. 1750
„ *? basfordiana*, Scaling, vii. 1757 note 1, 1768
„ *blanda*, Andersson, vii. 1751 and notes 3 and 4
„ Bonplandiana, *Humboldt, Bonpland, et Kunth*, vii. 1743 note 2
„ Caprea, *Linnæus*, vii. **1745**, 1743, 1744
„ „ distribution, etc. *See* Willow, Goat
„ „ var. *alpina*, vii. 1746
„ „ elliptica, vii. **1746**
„ „ orbiculata, vii. **1746**
„ „ pendula, vii. **1746**
„ „ sphacelata, vii. **1746**
„ capreola, *Kerner*, vii. **1746**
„ *cardinalis*, Veitch, vii. 1755
„ *chrysocoma*, Dode, vii. 1769 note 2

Salix—*continued*
„ cinerea, vii. 1746
„ „ hybrid, vii. 1746
„ cœrulea, *Smith*, vii. **1763**, 1745, 1758
„ „ cultivation, etc. *See* Willow, Cricket-Bat
„ *cuspidata*, Schultz, vii. 1748
„ decipiens, *Hoffmann*, vii. **1755**, 1744
„ *Ehrhartiana*, Smith, vii. 1748
„ elegantissima, *Koch*, vii. 1744, 1751
„ *excelsior*, Host, vii. 1756
„ fragilis, *Linnæus*, vii. **1754**, 1744, 1761
„ „ distribution, etc. *See* Willow, Crack
„ „ var. *britannica*, vii. 1755
„ „ *decipiens*, vii. 1755
„ „ *genuina*, vii. 1755
„ „ *latifolia*, vii. 1756
„ „ *Russelliana*, vii. 1757
„ *fragilis-alba*, Wimmer, vii. 1756
„ *fragrans*, Salisbury, vii. 1747
„ hexandra, *Ehrhart*, vii. **1748**
„ *Kilmarnocki*, Nicholson, vii. 1746
„ Meyeriana, *Rostkovius*, vii. **1748**
„ *montana*, Forbes, vii. 1756
„ *Napoleonis*, Schultz, vii. 1749
„ *palustris*, Host, vii. 1756
„ *pendula*, Moench, vii. 1749
„ pendulina, *Wender*, vii. **1751**
„ pentandra, *Linnæus*, vii. **1747**, 1744. *See also* Willow, Bay
„ „ var. angustifolia, vii. 1748
„ „ latifolia, vii. 1748
„ *Petzoldii pendula*, Hort., vii. 1751
„ *propendens*, Seringe, vii. 1749
„ *regalis*, Wesmael, vii. 1760
„ Reichardtii, *Kerner*, vii. **1746**
„ reticulata, *Linnæus*, vii. 1743 note 1
„ ? *rubens*, Schrank, vii. 1756
„ Russelliana, *Smith*, vii. **1757**
„ *Safsaf*, Dode, vii. 1754 note 1
„ Salamonii, *Carrière*, vii. **1750**, 1744, 1753
„ *sanguinea*, Scaling, vii. 1757 note 1
„ sepulcralis, *Simonkai*, vii. 1750 note 3, 1751 note 4
„ *Sieboldii*, Hort., vii. 1751
„ speciosa, *Host*, vii. **1756**, 1744
„ *sphacelata*, Smith, vii. 1746
„ *splendens*, Bray, vii. 1760
„ *tinctoria*, Smith, vii. 1748
„ triandra, hybrids, vii. 1755, 1756 and note 2
„ viridis, *Fries*, vii. **1756**, 1763
„ *viridis*, Pratt, vii. 1763
„ vitellina, *Linnæus*, vii. **1768**, 1744, 1745
„ „ var. britzensis, vii. **1769**
„ „ pendula, vii. **1769**
Sallow, vii. **1745**. *See* Willow, Goat
Saperda carcharias. *See* Insects
Sapindus chinensis, Linnæus, vii. 1932
„ *sinensis*, Gmelin, vii. 1932
Saru tree, v. 1153
SASSAFRAS, Nees, iii. **515**
Sassafras, iii. **516**. *See* Sassafras officinale
„ Chinese, iii. **515**. *See* Sassafras Tzumu
Sassafras—*continued*
„ officinale, *Nees*, iii. **516**
„ „ branchlets and buds, iii. 517, Pl. 200, Fig. 6
„ „ Claremont, tree at, iii. 518, Pl. 146
„ „ cultivation, iii. 518
„ „ distribution, iii. 517
„ „ identification, iii. 517
„ „ leaves, iii. 516, Pl. 199, Fig. 5
„ „ medicinal properties, iii. 519
„ „ remarkable trees, iii. 518
„ „ seedling, iii. 516
„ „ timber, iii. 519
„ *Sassafras*, Karsten, iii. 516
„ Tzumu, *Hemsley*, iii. **515**; vi. 1490 note 2
„ *variifolium*, O. Kuntze, iii. 516
Satin Walnut, iii. 503, 504
Savin, vi. **1443**. *See* Juniperus Sabina
Sawa gurumi tree, ii. 443
Sawara tree, v. 1193
SAXEGOTHÆA, vi. **1458**; i. 99
Saxegothæa conspicua, *Lindley*, vi. **1458**
Schember tree, v. 1037
Schnee birn tree, vi. 1559
SCHUBERTIA, Mirbel, i. 171
Schubertia disticha, Mirbel, i. 173
„ *sempervirens*, Spach, iii. 688
SCIADOPITYS, Siebold and Zuccarini, iii. **567**
Sciadopitys verticillata, *Siebold and Zuccarini*, iii. 568
„ „ cultivation, iii. 569
„ „ Hemsted, tree at, iii. 570, Pl. 159 B
„ „ in Japan, iii. 568, 569, Pl. 159 A
Scolytus destructor, etc. *See* Insects
SCORIA, Rafinesque, iii. 597
SEMIDOPSIS, Zumaglini, iv. 935
SEQUOIA, Endlicher, iii. **687**
Sequoia Couttsiæ, *Heer*, vi. 1449
„ gigantea, *Decaisne*, iii. **699**; i. 131; iii. 688
„ „ age of largest tree, iii. 705
„ „ Aston Clinton, trees at, iii. 708, Pl. 197
„ „ Big Tree Groves and Forests, table of, iii. 704
„ „ Calaveras Grove, iii. 701 note 6, 702
„ „ Cloverley Hall, measurements of trees at, iii. 709
„ „ Crane Flat Grove, iii. 702
„ „ cultivation, iii. 706
„ „ distribution, iii. 701
„ „ Fonthill Abbey, tree at, iii. 707, Pl. 196
„ „ Fresno Grove, iii. 703
„ „ in California, iii. 701-705
„ „ in England, iii. 706-709
„ „ in Ireland, iii. 710
„ „ in Scotland, iii. 709
„ „ introduction, iii. 706

Sequoia gigantea, *Decaisne—continued*
„ „ Kaweah River, forest, iii. 703, 705
„ „ King's River, forest, iii. 703
„ „ Mariposa Grove, iii. 703
„ „ North Grove in Placer County, iii. 701
„ „ on the Continent, iii. 710
„ „ rate of growth, compared with other trees, iii. 709
„ „ remarkable trees, iii. 706
„ „ Stanislaus or South Calaveras Grove, iii. 702
„ „ Strathfieldsaye, avenue at, iii. 707
„ „ timber, iii. 710
„ „ Tule River, groves on, iii. 703, 705
„ „ var. argentea, iii. 701
„ „ aurea, iii. **701**
„ „ *aureo-variegata*, iii. 701
„ „ *Barroni pendula*, iii. 701
„ „ glauca, iii. 701
„ „ Holmsii, iii. 701
„ „ pendula, iii. **700**
„ „ pygmæa, iii. 701
„ „ Wellington College, avenue near, iii. 708, Pl. 198
„ *gigantea*, Endlicher, iii. 688
„ *religiosa*, Presl, iii. 688
„ sempervirens, *Endlicher*, iii. **688**, 687
„ „ Claremont, tree at, iii. 696, Pl. 194
„ „ climate, iii. 692
„ „ coppice shoots, iii. 689 note 5
„ „ cultivation, iii. 694
„ „ distribution, iii. 689
„ „ in California, iii. 689, Pl. 195
„ „ in England, iii. 695-697
„ „ in Ireland, iii. 696, 697
„ „ in Oregon, iii. 690
„ „ in Scotland, iii. 695, 697
„ „ introduction, iii. 694
„ „ remarkable trees, iii. 696
„ „ root-suckers, iii. 689
„ „ tallest tree in the world, iii. 690 note 3, 692 ; vi. 1614
„ „ timber, iii. 698 ; v. 1093
„ „ trees associated with, iii. 691
„ „ var. *adpressa*, iii. 689
„ „ albospica, iii. **689**
„ „ glauca, iii. **689**
„ „ taxifolia, iii. **689**
„ *Washingtoniana*, Sudworth, iii. 699
„ *Wellingtonia*, Seemann, iii. 699
Service tree, etymology, i. 146 note 1
„ „ Griping, i. 152
„ „ of Fontainebleau, i. **155**. *See* Pyrus latifolia
„ „ True, i. **146**, 142. *See* Pyrus Sorbus
„ „ Wild, i. **151**. *See* Pyrus torminalis
Sex and habit of Araucaria, i. 45
„ „ Ginkgo, i. 57
„ „ Yew, i. 116
Sha tree, i. 108, 132
Shagbark Hickory, iii. **601**. *See* Carya alba
Sha-li tree, vi. 1557
Shellbark, Big, iii. **605**. *See* Carya sulcata
Shima-guwa tree, vi. 1611 note 3
Shima-momi tree, vi. 1476 note 1
Shimofuri hiba tree, v. 1191
Shinko matsu tree, vi. 1370
Shinobu-hiba tree, v. 1192
Shirabiso or Shiramomi tree, iv. 770
Shira-Kamba tree, iv. 968 note 1
Shittim wood, v. 1157 note 6
Shuro tree, vii. 1692
Silkworms, i. 32 ; vi. 1611
Silver Birch. *See* Birch, Silver
„ Firs. *See* Abies
Sleep of plants, i. 40 ; ii. 431
Snowdrop tree, vi. **1602**. *See* Halesia carolina
Soap tree, Chinese, ii. **427**. *See* Gymnocladus chinensis
Sobreiro tree, v. 1295
Solenostigma, Endlicher, iv. 925
Sophora, Linnæus, i. **36**
„ japonica, *Linnæus*, i. **37**, 36 ; ii. 450 ; vii. 1933 and note 4
„ „ branchlets and buds, i. 37-38
„ „ Cambridge, tree at, i. 42, Pl. 16 ; vii. 1933 note 4
„ „ cultivation, i. 41
„ „ distribution and history, i. 39
„ „ identification, i. 37
„ „ introduction, i. 41
„ „ remarkable trees, i. 42
„ „ uses in China, i. 40
„ „ var. crispa, i. **38**
„ „ Korolkowii, i. **38**
„ „ oligophylla, i. **39**
„ „ pendula, i. **38**. *See* Errata, 1935
„ „ variegata, i. **38**
„ „ violacea, i. **39**
„ *Korolkowii*, Cornu, i. **38**
„ macrocarpa, i. 36
„ platycarpa, *Maximowicz*, i. **36**, 39 note 8
„ shikokiana, *Makino*, i. 36 note 3
„ tetraptera, i. 36
„ Weeping, i. **38**
Sorb tree, i. **148**. *See* Pyrus Sorbus
Sorbus, Linnæus, i. 141 ; vi. 1574 note 1
Sorbus ambigua, Michalet, i. 168
„ *americana*, Marshall, vi. 1574 note 2
„ *Aria*, Crantz, i. 166
„ *arioides*, Michalet, i. 168
„ *arranensis*, Hedlund, i. 163
„ *Aucuparia*, Linnæus, vi. 1576
„ „ var. *japonica*, vi. 1574 note 4
„ *commixta*, Hedlund, vi. 1574 note 4
„ *cretica*, Fritsch, i. 167
„ *Decaisneana*, Zabel, i. 167 note 4
„ *decurrens*, Hedlund, vi. 1578
„ *domestica*, Linnæus, i. 146
„ *fennica*, Fries, i. 163, 164
„ *hybrida*, Linnæus, i. 163 ; vi. 1578 note 1
„ *intermedia*, Persoon, i. 159
„ *japonica*, Koehne, vi. 1574 note 4
„ *lanuginosa*, Kitaibel, vi. 1577

Sorbus—continued
„ *latifolia*, Persoon, i. 155
„ *magnifica*, Hort., i. 145
„ *majestica*, Hort., i. 145
„ *minima*, Hedlund, i. 159 note 3
„ *Mougeoti*, Soyer-Willemet et Godron, i. 159
„ *nepalensis*, Hort., i. 145
„ *neuillyensis*, Dippel, vi. 1578
„ *pekinensis*, Koehne, vi. 1575
„ *pohuashanensis*, Rehder, vi. 1575 note 5
„ *pyriformis*, L'Obelius, i. 147, 148
„ *sativa*, Miller, 148 note 2
„ „ var. *pyriformis*, i. 148
„ *satureiifolia*, Koehne, vi. 1578
„ *saturejæfolia*, Koch, vi. 1578
„ *scandica*, Fries, i. 159
„ *subserrata*, Opiz, vi. 1578
„ *thianshanica*, Ruprecht, vi. 1575 note 4
„ *torminalis*, Crantz, i. 151
„ *Vilmorini*, Schneider, vi. 1576 note 1
Spirke tree, v. 1132 note 2
Spitzfichte, vi. 1341
Spruce, Ajan, i. **85.** *See* Picea ajanensis
„ Alberta White, vi. **1385.** *See* Picea albertiana
„ Black, vi. **1375.** *See* Picea nigra
„ Brewer's, i. **82.** *See* Picea Breweriana
„ Candelabra, vi. **1344**
„ "Cat," vi. 1380 note 2
„ Colorado, vi. **1389.** *See* Picea pungens
„ "Columnar," vi. **1341**
„ Common, vi. **1337.** *See* Picea excelsa
„ Engelmann's, vi. **1387.** *See* Picea Engelmanni
„ "German," vi. **1340**
„ Hemlock, ii. **239.** *See* Tsuga canadensis
„ Himalayan, vi. **1366.** *See* Picea Smithiana
„ Hondo, i. **89.** *See* Picea hondoensis
„ Menzies', i. **92.** *See* Picea sitchensis
„ Morinda, vi. **1366.** *See* Picea Smithiana
„ Norway, iv. 825
„ Red, vi. **1377.** *See* Picea rubra
„ Schrenk's, vi. **1364.** *See* Picea Schrenkiana
„ Servian, i. **78.** *See* Picea Omorika
„ Siberian, vi. **1359.** *See* Picea obovata
„ Sikkim, vi. **1392.** *See* Picea spinulosa
„ Sitka, i. **92.** *See* Picea sitchensis
„ Snake, vi **1342**
„ Tideland, i. 92 note 1
„ Weeping, vi. **1340**
„ Western Himalayan, vi. **1366.** *See* Picea Smithiana
„ White, vi. **1380.** *See* Picea alba
„ Yezo, i. 87
Spruce-Firs, i. **75.** *See* Picea
Steinhauera, Kuntze, iii. 687
Storax, balsamic resin, iii. 505
Strasburg turpentine, iv. 731
Strawberry tree, iii. **559.** *See* Arbutus Unedo
Sugar, Maple, iii. 681
„ Pine, v. 1020 note 3
Sughero tree, v. 1264
Sugi-no-janai, resin, i. 138
Suro tree, v. 1295
Sycamore, iii. **641.** *See also* Acer Pseudoplatanus
„ Castle Menzies, tree at, iii. 648, Pl. 182
„ Colesborne, tree at, iii. 647, Pl. 179
„ Corstorphine, iii. **643,** 644
„ cultivation, iii. 646
„ distribution, iii. 645
„ Drumlanrig Castle, tree at, iii. 648, Pl. 181
„ fossil, iii. 645
„ Golden, iii. **643,** 644
„ identification, iii. 642
„ in England, iii. 647
„ in Ireland, iii. 649
„ in Scotland, iii. 648
„ in Switzerland, iii. 650, Pl. 183
„ in Wales, iii. 648
„ leaves, iii. 636, 641, Pl. 206, Fig. 20
„ Newbattle Abbey, tree at, iii. 648, Pl. 180
„ Purple-leaved, iii. **644**
„ remarkable trees, iii. 647
„ Stripe-leaved, iii. **643**
„ Studley Royal, tree at, iii. 647
„ timber, iii. 650
„ varieties, iii. 642
Synædrys, Lindley, v. 1215

Tabebuia pentaphylla, *Bentham and Hooker*, vii. 1730 note 3
Tafoden merched tree, vii. 1789
Take-kamba tree, iv. 977 note 3
Tamarack, ii. **392.** *See* Larix americana
Taxodium, Richard, i. **171**
Taxodium distichum, *Richard*, i. **173**; iii. 513
„ „ cultivation, i. 178
„ „ distribution, i. 177
„ „ Mitla (near Oaxaca), tree at, i. 175 note 3
„ „ North Carolina, swamp, i. 178, Pl. 53
„ „ remarkable trees, i. 179
„ „ Syon, tree at, i. 179, Pl. 54
„ „ sub-varieties, i. 176
„ „ timber, i. 181
„ „ var. imbricaria, i. **173,** 171
„ „ *mexicanum*, i. 175
„ „ mucronatum, i. **175**
„ „ *pendulum*, i. 173
„ „ typica, i. **173**
„ „ Virginia, tree in, i. 178, Pl. 52
„ „ Whitton, tree at, i. 179, Pl. 55
„ *giganteum*, Kellogg and Behr, iii. 699
„ *imbricarium*, Harper, i. 173
„ *mexicanum*, Carrière, i. 175
„ *Montezumæ*, Decaisne, i. 175
„ *mucronatum*, Tenore, i. 175
„ *mucronulatum*, Sargent, i. 175
„ *sempervirens*, Lambert, iii. 688
„ *sinense*, Gordon, i. 173
„ *Washingtonianum*, Winslow, iii. 699
Taxus, Linnæus, i. **98.** *See also* Yew
Taxus *adpressa*, Gordon, i. 114

Taxus—*continued*
„ baccata, *Linnæus*, i. **100**
„ „ distribution, etc. *See* Yew
„ „ sub-species *Wallichiana*, Pilger, i. 100 note 1
„ „ var. adpressa, i. **114**, 113, 115; iii. 689
„ „ „ aurea, i. 115
„ „ „ stricta, i. 115
„ „ „ variegata, i. 115
„ „ aurea, i. **113**
„ „ Barroni, i. **113**
„ „ brevifolia, i. **108**, 100
„ „ canadensis, i. **109**, 100
„ „ cheshuntensis, i. **111**
„ „ *Crowderi*, i. 111
„ „ cuspidata, i. **107**, 100
„ „ Dovastoni, i. **112**
„ „ „ aureo-variegata, i. 112
„ „ „ variegata, i. 112
„ „ elegantissima, i. **111**, 113
„ „ *empetrifolia*, i. 112
„ „ erecta, i. **111**, 113
„ „ ericoides, i. **112**
„ „ fastigiata, i. **110**
„ „ „ argentea, i. 111
„ „ „ aurea, i. 111
„ „ floridana, i. **109**, 100
„ „ fructu luteo, i. **114**
„ „ glauca, i. **114**
„ „ globosa, i. **109**, 101
„ „ gracilis pendula, i. 113
„ „ horizontalis, i. **113**
„ „ imperialis, i. 111
„ „ nana, i. **112**
„ „ pendula, i. **112**
„ „ procumbens, i. **113**
„ „ recurvata, i. **113**
„ „ sinensis, i. **108**, 100
„ „ *stricta*, i. 111
„ „ typica, i. **101**, 100
„ „ Washingtoni, i. **113**
„ *baccata*, Thunberg, vi. 1469
„ *brevifolia*, Nuttall, i. 100, 108
„ *canadensis*, Marshall, i. 100; Errata, 1936
„ „ var. *aurea*, i. 100 note 5
„ *coriacea*, Knight and Perry, vi. 1469 note 4
„ *cuspidata*, Siebold and Zuccarini, i. 100, 108
„ „ var. *compacta*, i. 108
„ *fastigiata*, Lindley, i. 110
„ *floridana*, Chapman, i. 100
„ *Foxii*, Hort., i. 112
„ *globosa*, Schlechtendal, i. 101
„ *Harringtonia*, Knight, vi. 1471
„ *hibernica*, Hooker, i. 110
„ *montana*, Nuttall, vi. 1466
„ *nucifera*, Linnæus, vi. 1463
„ *sinensis tardiva*, Knight, i. 114
„ *tardiva*, Lawson, i. 114
„ *verticillata*, Thunberg, iii. 568
„ *Wallichiana*, Zuccarini, i. 100 note 1
"Tea," v. 1097. *See* Pinus canariensis
Tejo, i. 105
Tetranthera (?) *californica*, Hooker and Arnott, vi. 1531
Theyga, Molina, vii. 1700
Thiga, Molina, vii. 1700
Thorn, Glastonbury, vii. **1736**
„ of St. Patrice, vii. 1736 note 3
„ Queen Mary's, vii. 1735
Thuiæcarpus, Trautvetter, vi. 1395
Thuiæcarpus juniperinus, Trautvetter, vi. 1400 note 3
Thuja, Linnæus, i. 182 note 1; Errata, 1937
Thujopsis, Siebold and Zuccarini, ii. **201**
Thujopsis *borealis*, Carrière, v. 1194, 1197
„ dolabrata, *Siebold and Zuccarini*, ii. **202**; i. 136
„ „ cultivation, ii. 205
„ „ distribution, ii. 203
„ „ in Japan, i. Pl. 60; ii. 204
„ „ timber, ii. 204
„ „ var. australis, ii. **202**
„ „ Hondai, ii. **202**, 203
„ „ lætevirens, ii. **203**
„ „ *nana*, ii. 203
„ „ variegata, ii. **203**
„ *Hondai*, A. Henry, ii. 202
„ *lætevirens*, Lindley, ii. 203
„ *Standishii*, Gordon, i. 195
„ *Tschugatskoi*, Fischer, v. 1197
Thuya, Baillon, iii. 484
„ Bentham et Hooker, ii. 201
Thuya, Linnæus, i. **182**
„ section Biota, i. **183**, 182
„ „ *Chamæcyparis*, Bentham et Hooker, v. 1146
„ „ Euthuya, i. **183**, 182
Thuya *andina*, Poeppig et Endlicher, iii. 486
„ *chilensis*, Don, iii. 486
„ *Craigana*, Balfour, iii. 489, 490
„ *Craigiana*, Hort., i. 184
„ *dolabrata*, Linnæus, ii. 202
„ *Doniana*, Hooker, iii. 487
„ *excelsa*, Bongard, v. 1194
„ *filiformis*, Lindley, i. 197
„ Giant. *See* Thuya plicata
„ *gigantea*, Carrière, iii. 489, 490
„ „ Nuttall, i. 184, 185
„ „ var. *japonica*, i. 195
„ Japanese. *See* Thuya japonica
„ japonica, *Maximowicz*, i. **195**, 183, 191, 200
„ „ in Great Britain, i. 196
„ *Lobbi*, Hort., i. 184, 185
„ *Menziesii*, Douglas, i. 184
„ *obtusa*, Masters, v. 1185
„ „ var. *breviramea*, v. 1186
„ „ *filicoides*, v. 1186
„ „ *lycopodioides*, v. 1186
„ occidentalis, *Linnæus*, i. **191**, 183, 185, 195, 200
„ „ distribution, i. 193
„ „ remarkable trees, i. 194
„ „ var. aurea, i. 193
„ „ dumosa, i. **193**
„ „ Ellwangeriana, i. **192**

Thuya occidentalis, *Linnæus—continued*
„ „ var. erecta, i. **193**
„ „ „ viridis, i. **193**
„ „ ericoides, i. **192**, 198
„ „ lutea, i. 193
„ „ pendula, i. **193**
„ „ plicata, i. **192**, 185 note 2
„ „ Späthi, i. **193**
„ „ vervæneana, i. 193
„ „ Wareana, i. **192**
„ orientalis, *Linnæus*, i. **197**, 183; v. 1164 notes 1 and 5
„ „ Chinese name, i. 199
„ „ distribution, i. 199
„ „ var. argenteo-variegata, i. 198
„ „ aurea, i. 198
„ „ aureo-variegata, i. 198
„ „ decussata, i. **198**
„ „ ericoides, i. 198
„ „ funiculata, i. 198
„ „ gracilis, i. 198
„ „ intermedia, i. **198**
„ „ Meldensis, i. **198**
„ „ pendula, i. **197**; v. 1164 note 5, 1187
„ „ pyramidalis, i. 198
„ *pendula*, Lambert, i. 197
„ *pensilis*, Staunton, i. 172 note 1
„ *pisifera*, Masters, v. 1190
„ „ var. *filifera*, v. 1192
„ „ *plumosa*, v. 1191
„ „ *squarrosa*, v. 1190
„ plicata, *D. Don*, i. **184**, 183, 191, 195; ii. 397, 398; iii. 491
„ „ cultivation, i. 186
„ „ distribution, i. 185
„ „ Fonthill Abbey, tree at, i. 188, Pl. 57
„ „ history, i. 185
„ „ in England, i. 188
„ „ in Ireland, i. 189
„ „ in Scotland, i. 189
„ „ in Vancouver Island, i. 186, Pl. 56
„ „ in Wales, i. 189
„ „ remarkable trees, i. 187
„ „ timber, i. 190
„ „ Western Hemlock growing on fallen log of, in America, i. Pl. 59; ii. 236
„ *plicata*, Hort., i. 185, 191
„ „ Parlatore, i. 192
„ *sphæroidalis*, Richard, v. 1210
„ *sphæroidea*, Sprengel, v. 1210
„ *Standishii*, Carrière, i. 195; Errata, 1937
„ sutchuenensis, *Franchet*, i. **183**
„ *tetragona*, Hooker, iii. 485
Tilia, Linnæus, vii. **1653**
„ key to species, vii. 1654
Tilia *alba*, Aiton, vii. 1675
„ „ Koch, vii. 1677
„ „ Michaux, vii. 1689
„ *alba spectabilis*, vii. 1686 note 4
„ americana, *Linnæus*, vii. **1685**, 1654
„ „ distribution, vii. 1687
Tilia americana, *Linnæus—continued*
„ „ hybrids, vii. 1685 note 1, 1686, 1687, 1688, 1689
„ „ leaves, vii. 1685, Pl. 407, Fig. 1
„ „ timber, vii. 1687
„ „ var. *heterophylla*, vii. 1688
„ „ *Moltkei*, vii. 1686 note 2
„ „ *pendula*, vii. 1678
„ „ *pubescens*, vii. 1689
„ „ *rubra*, vii. 1689
„ amurensis, *Ruprecht*, vii. 1657 note 3
„ *argentea*, Desfontaines, vii. 1675, 1676
„ „ var. *virescens*, vii. 1687
„ *argentea-nigra*, Bayer, vii. 1687 note 1
„ Beaumontia, Hort., vii. 1666
„ *Blechiana*, Hort., vii. 1686 note 4
„ *Blockiana*, Borbas, vii. 1657 note 1
„ *canadensis*, Michaux, vii. 1685
„ *caroliniana*, Miller, vii. 1685
„ caucasica, *Ruprecht*, vii. 1663
„ „ hybrid, vii. 1674
„ chinensis, *Maximowicz*, vii. 1684 note 2
„ *corallina*, Smith, vii. 1661
„ cordata, *Miller*, vii. **1656**, 1654, 1665, 1669
„ „ distribution, vii. 1657
„ „ hybrids, vii. 1665, 1674
„ „ leaves, vii. 1656, Pl. 407, Fig. 8
„ „ remarkable trees, vii. 1660
„ „ Sprowston Hall, tree at, vii. 1660, Pl. 372
„ „ var. aureo-variegata, vii. **1657**
„ „ Blockiana, vii. 1657 note 1
„ „ cucullata, vii. **1657**
„ „ japonica, vii. 1657 note 3
„ „ mandshurica, vii. 1657 note 3
„ „ ovalifolia, vii. 1657 note 1
„ „ sibirica, vii. 1657 note 3
„ „ vitifolia, vii. **1657**
„ *cordata* × *T. platyphyllos*, Schneider, vii. 1664
„ „ × *T. tomentosa*, vii. 1687 note 1
„ corinthiaca, *Bosc*, vii. 1663
„ *cucullata*, Jacquin, vii. 1662
„ *dasystyla*, Jack, vii. 1674
„ dasystyla, *Steven*, vii. 1674
„ *eburnea*, Ashe, vii. 1688 and note 2
„ euchlora, *Koch*, vii. **1674**, 1654, 1669
„ „ leaves, vii. 1674, Pl. 407, Fig. 10
„ *europæa*, Linnæus, vii. 1656, 1661, 1664
„ flavescens, *A. Braun*, vii. **1665**
„ floribunda, *A. Braun*, vii. **1665**
„ *fœmina, folio minore*, C. Bauhin, vii. 1656 note 1
„ *Franchetiana*, Schneider, vii. 1684
„ *gigantea*, Hort., vii. 1689
„ *glabra*, Ventenat, vii. 1685
„ *grandifolia*, Ehrhart, vii. 1661
„ heterophylla, *Ventenat*, vii. **1688**, 1655
„ „ hybrids, vii. 1686 note 1, 1689
„ *hybrida superba*, Hort., vii. 1689
„ *intermedia*, De Candolle, vii. 1664
„ japonica, *Simonkai*, vii. 1657 note 3
„ *Kinashii*, Léveillé and Vaniot, vii. 1684
„ *latifolia*, Salisbury, vii. 1685
„ *macrophylla*, Hort., vii. 1689

Tilia—*continued*
„ *mandshurica*, Miquel, vii. 1684
„ mandshurica, *Ruprecht and Maximowicz*, vii. **1682**, 1655
„ „ var. *pekinensis*, vii. 1682 note
„ *mandshurica*, Szyszylowicz, vii. 1681
„ Maximowicziana, *Shirasawa*, vii. **1683**, 1655
„ *Maximowiczii*, Baker, vii. 1657 note 3, 1683 note 1
„ Michauxii, *Nuttall*, vii. **1689**, 1655, 1685 note 1, 1686 note 3, 1688
„ „ leaves, vii. 1689, Pl. 407, Fig. 5
„ *microphylla*, Ventenat, vii. 1656
„ Miqueliana, *Maximowicz*, vii. **1684**, 1656
„ „ leaves, vii. 1684, Pl. 407, Fig. 9
„ „ var. *chinensis* (Diels), vii. 1680
„ „ „ (Szyszylowicz), vii. 1684 note 2
„ *Miqueliana*, Sargent, vii. 1683
„ *Miyabei*, Jack, vii. 1683
„ *mollis*, Spach, vii. 1661
„ Moltkei, *Schneider*, vii. **1686**, 1654, 1685 note 1
„ mongolica, *Maximowicz*, vii. **1679**, 1654
„ „ leaves, vii. 1679, Pl. 407, Fig. 7
„ *multiflora*, Simonkai, vii. 1674
„ *nigra*, Borkhausen, vii. 1685
„ *obliqua*, Host, vii. 1662 note 1
„ Oliveri, *Szyszylowicz*, vii. **1681**, 1655
„ orbicularis, *Carrière*, vii. **1678**
„ *pallida*, Salisbury, vii. 1675
„ pallida, *Wierzbicki*, vii. **1665**
„ *parvifolia*, Ehrhart, vii. 1656
„ paucicostata, *Maximowicz*, vii. **1680**, 1654
„ *pauciflora*, Hayne, vii. 1661
„ *pekinensis*, Ruprecht, vii. 1682
„ *pendula*, V. Engler, vii. 1681
„ *petiolaris*, De Candolle, vii. 1675, 1678 and note 1
„ petiolaris, *J. D. Hooker*, vii. **1677**, 1655, 1669
„ „ flowers poisonous to bees, vii. 1677 note 1, 1679 and note 1
„ „ Hatherop Castle, tree at, vii. 1679, Pl. 374
„ „ leaves, vii. 1677, Pl. 407, Fig. 2
„ platyphyllos, *Scopoli*, vii. **1661**, 1654, 1658, 1664, 1665, 1667 note 1, 1669
„ „ distribution, vii. 1662
„ „ hybrids, vii. 1665
„ „ leaves, vii. 1661, Pl. 407, Fig. 6
„ „ remarkable trees, vii. 1663
„ „ varieties, vii. 1661
„ „ var. albo-marginata, vii. 1662
„ „ *aspleniifolia*, vii. 1662
„ „ *aurantia*, vii. 1662
„ „ aurea, vii. **1662**
„ „ corallina, vii. **1662**
„ „ cucullata, vii. **1662**
„ „ *filicifolia*, vii. 1662
„ „ laciniata, vii. **1662**
„ „ multibracteata, vii. **1662**
„ „ obliqua, vii. **1662**
„ „ pyramidalis, vii. **1662**
Tilia platyphyllos, *Scopoli—continued*
„ „ var. tortuosa, vii. **1662**
„ „ vitifolia, vii. **1662**
„ pubescens, *Aiton*, vii. 1688
„ *rotundifolia*, Ventenat, vii. 1675
„ *rubra*, De Candolle, vii. 1674 note 3
„ „ var. *euchlora*, vii. 1674
„ sibirica, *Bayer*, vii. 1657 note 3
„ spectabilis, *Dippel*, vii. **1686**, 1655, 1685 note 1
„ „ leaves, vii. 1686, Pl. 407, Fig. 11
„ *stenopetala*, Rafinesque, vii. 1685
„ *subparvifolia*, Borbas, vii. 1665 note 1
„ *sylvestris*, Desfontaines, vii. 1656
„ tomentosa, *Moench*, vii. **1675**, 1655, 1686 note 3
„ „ Albury Park, tree at, vii. 1677, Pl. 373
„ „ cultivation, vii. 1676
„ „ flowers poisonous to bees, vii. 1677
„ „ hybrids, vii. 1686, 1687
„ „ leaves, vii. 1675, Pl. 407, Fig. 3
„ „ var. argentea, vii. 1676
„ „ petiolaris (V. Engler), vii. 1676
„ „ *petiolaris* (Kirchner), vii. 1677, 1678
„ „ *sphærobalana*, vii. 1677
„ „ typica, vii. 1676
„ *ulmifolia*, Scopoli, vii. 1656
„ „ *foliis variegatis*, vii. 1657 note 2
„ viridis, *Simonkai*, vii. 1687
„ vulgaris, *Hayne*, vii. **1664**, 1654
„ „ abnormal growths, vii. 1667
„ „ attacked by moths, vii. 1668
„ „ avenues, vii. 1667
„ „ cultivation, vii. 1666
„ „ honey dew on, vii. 1666
„ „ layering, vii. 1670, 1671
„ „ leaves, vii. 1664, Pl. 407, Fig. 4
„ „ mistletoe on, vii. 1672
„ „ remarkable trees, vii. 1669
„ „ saccharine excretion, vii. 1666
„ „ timber, vii. 1673
„ „ var. *pallida*, vii. 1665 note 1
Tillandsia usneoides. *See* Plants, Miscellaneous
Tinea curtisella. *See* Insects
Tochinoki tree, ii. 221
Tocio tree, v. 1315
Todo-matsu tree, iv. 761
Todonup tree, v. 1046
Togasawara tree, iv. 813
To-gaya tree, vi. 1472
Tohi tree, i. 90
Toneriko tree, iv. 896
Toona, Roemer, ii. 433
Toona sinensis, Roemer, ii. 433
Torminaria Clusii, Roemer, i. 151
Torreya, Arnott, vi. **1461**; i. 99
Torreya californica, *Torrey*, vi. **1465**, 1462
„ *Fargesii*, Franchet, vi. 1464
„ grandis, *Fortune*, vi. **1464**, 1462
„ *Myristica*, J. D. Hooker, vi. 1465, 1466

Torreya—*continued*
„ nucifera, *Siebold and Zuccarini*, vi. **1463**, 1462
„ „ var. *grandis*, vi. 1464
„ taxifolia, *Arnott*, vi. **1466**, 1462
Tortrix viridana. *See* Insects
To-sugi tree, i. 130
TRACHYCARPUS, H. Wendland, vii. **1690**
Trachycarpus *excelsa*, H. Wendland, vii. 1690
„ Fortunei, *H. Wendland*, vii. **1690**
„ „ Lamorran, tree at, vii. 1692, Pl. 375
„ „ var. *Fortunei*, vii. 1692 note 2
„ „ gracilis, vii. **1691**
„ „ surculosa, vii. **1691**
„ „ *typica*, vii. 1692 note 2
„ Martiana, *Wendland*, vii. 1690 note 1
„ Takil, *Beccari*, vii. 1690 note 1
Trametes radiciperda. *See* Fungi
TSUGA, Carrière, ii. **227**
„ key to species, ii. 227
„ section HESPEROPEUCE, Engelmann, ii. 227
„ „ MICROPEUCE, Spach, ii. 228
„ „ *PEUCOIDES*, Engelmann, iv. 811
Tsuga Albertiana, *Sénéclauze*, ii. **234**, 228, 230, 398; iii. 480
„ „ cultivation, ii. 236
„ „ distribution, ii. 235
„ „ Dropmore, tree at, ii. 237, Pl. 68.
„ „ growing on fallen log of Giant Thuya in America, i. Pl. 59; ii. 236
„ „ Murthly, tree at, ii. 237, Pl. 69
„ „ remarkable trees, ii. 237
„ „ timber, ii. 238; iii. 698
„ *Araragi*, Koehne, ii. 246
„ Brunoniana, *Carrière*, ii. **244**, 228
„ „ Boconnoc, tree at, ii. 245, Pl. 72
„ „ trees associated with, ii. 245
„ „ var. *chinensis*, ii. 245
„ canadensis, *Carrière*, ii. **239**, 228
„ „ bark, used for tanning, ii. 243 note
„ „ cultivation, ii. 241
„ „ distribution, ii. 240
„ „ Foxley, trees at, ii. 241, Pl. 70
„ „ remarkable trees, ii. 241
„ „ Strathfieldsaye, tree at, ii. 242, Pl. 71
„ „ timber, ii. 242
„ „ var. albo-spica, ii. **239**
„ „ argentea, ii. **239**
„ „ parvifolia, ii. **239**
„ „ pendula, ii. **239**
„ „ Sargentii, ii. **239**
„ Caroliniana, *Engelmann*, ii. **243**, 228
„ chinensis, *Masters*, ii. **229**, 245
„ diversifolia, *Masters*, ii. **247**; i. 90; ii. 228, 229, 247
„ „ cultivation, ii. 248
„ „ distribution, ii. 247
„ *Douglasii*, Carrière, iv. 814
Tsuga—*continued*
„ *dumosa*, Sargent, ii. 244; Errata, 1937
„ *heterophylla*, Sargent, ii. 234; Errata, 1937
„ *Hookeriana*, Carrière, ii. 229
„ Japanese, distribution, ii. 247
„ *japonica*, Shirasawa, iv. 812
„ *Lindleyana*, Roezl, iv. 814
„ *macrocarpa*, Lemmon, iv. 812
„ *Mertensiana*, Carrière, ii. 234
„ „ Sargent, ii. 229, 230
„ Pattoniana, *Sénéclauze*, ii. **229**, 228
„ „ distribution, ii. 232
„ „ Murthly Castle, tree at, ii. 233, Pl. 67
„ „ remarkable trees, ii. 233
„ „ trees associated with, ii. 232
„ „ var. Jeffreyi, ii. **231**
„ „ typica, ii. **231**
„ Sieboldii, *Carrière*, ii. **246**, 228, 229, 247, 248
„ „ var. *nana*, ii. 248
„ *taxifolia*, Kuntze, iv. 814
„ *Tsuja*, A. Murray, ii. 246
„ yunnanensis, *Masters*, ii. **229**
Tsung tree, vii. 1691
Tuan tree, vii. 1682
Tu-li tree, vi. 1557
Tulip tree, i. **65**. *See also* Liriodendron Tulipifera
„ „ branchlets and buds, i. 66; ii. Pl. 126, Fig. 1
„ „ Chinese, i. **64**
„ „ cultivation, i. 68
„ „ distribution, i. 67
„ „ identification, i. 66
„ „ in England, i. 70
„ „ in France, i. 73
„ „ in Ireland, i. 73
„ „ in North Carolina, i. 67, Pl. 24
„ „ in Scotland, i. 72
„ „ introduction, i. 68
„ „ Killerton, tree at, i. 71, Pl. 26
„ „ leaves, i. 65, 66; iii. Pl. 204, Fig. 7
„ „ Leonardslee, tree at, i. 70, Pl. 27
„ „ Longleat, self-sown tree at, i. 69
„ „ remarkable trees, i. 70
„ „ soil and situation, i. 69
„ „ timber, i. 73; v. 1033
„ „ varieties, i. 66
„ „ Woolbeding, tree at, i. 70, Pl. 25
TUMION, Rafinesque, vi. 1461
Tumion californicum, Greene, vi. 1465
„ *grande*, Greene, vi. 1464
„ *nuciferum*, Greene, vi. 1463
„ *taxifolium*, Greene, vi. 1466
T'ung tree, vi. 1493
T'ung-yu tree, vi. 1494 note 1
TUPELO, Adanson, iii. 508
Tupelo, iii. **509**. *See* Nyssa sylvatica
„ Chinese, iii. **514**. *See* Nyssa sinensis
Turpentine, v. 1012, 1093
„ Strasburg, iv. 731
„ Venice, ii. 373
Tysk gran tree, vi. 1340
Tze tree, vi. 1490 note 2

Tz'e ch'iu tree, vii. 1695
Tz'e Poh tree, vi. 1416
Tzu-mu tree, iii. 515

Ubhul tree, iii. 457
Udai-kamba tree, iv. 976
ULMUS, Linnæus, vii. **1847.** *See also* Elm
„ key to species, vii. 1848
„ section BLEPHAROCARPUS, Dumortier, vii. **1848**
„ „ MADOCARPUS, Dumortier, vii. **1848**
„ „ MICROPTELEA, Planchon, vii. **1848**
Ulmus alata, *Michaux*, vii. **1924,** 1848, 1850
„ „ leaves and branchlets with corky wings, vii. 1924, Pl. 411, Fig. 12
„ *alata*, Hort., vii. 1888
„ *alba*, Besser, vii. 1851 note 2
„ „ Kitaibel, vii. 1851 note 2
„ „ Rafinesque, vii. 1855
„ americana, *Linnæus*, vii. **1855,** 1848, 1851
„ „ cultivation, etc. *See* Elm, American White
„ „ var. aurea (Temple), vii. **1857**
„ „ *aurea*, vii. 1868
„ „ pendula, vii. **1856**
„ „ *rubra*, vii. 1862
„ *americana*, W. Masters, vii. 1879
„ *antarctica*, Petzold and Kirchner, vii. 1906
„ arbuscula, *Wolf*, vii. **1927**
„ *atinia*, Walker, vii. 1903
„ *batavina*, Koch, vii. 1869
„ belgica, *Burgsdorf*, vii. **1869,** 1886
„ „ leaves, vii. 1870, Pl. 412, Fig. 18
„ „ var. Dumontii, vii. **1871**
„ *betulæfolia*, Loddiges, vii. 1896
„ *campestris*, Komarov, vii. 1923
„ „ Linnæus (in part), vii. 1864
„ „ of French nurseries, vii. 1898
„ campestris, *Linnæus*, vii. **1903,** 1848, 1850, 1888 note 2
„ „ distribution, etc. *See* Elm, English
„ „ var. *antarctica*, vii. 1906
„ „ „ *aurea*, vii. 1907
„ „ *aurea*, vii. 1907
„ „ australis, vii. **1904**
„ „ „ leaves, vii. 1904, Pl. 412, Fig. 17
„ „ *bataviana*, vii. 1869
„ „ *belgica*, vii. 1869
„ „ Berardii, vii. **1906**
„ „ *betulæfolia*, vii. 1906
„ „ *chinensis*, vii. 1928
„ „ *concavæfolia*, vii. 1895
„ „ *cornubiensis*, vii. 1889, 1891 note 1
„ „ *dalmatica*, vii. 1905 and note 1
„ „ *Dampieri*, vii. 1894
„ „ *Dumontii*, vii. 1871
„ „ *foliis variegatis*, vii. 1905
„ „ *glabra*, vii. 1887
„ „ *japonica*, vii. 1923
„ „ *Klemmer*, vii. 1872

Ulmus campestris, *Linnæus—continued*
„ „ var. *lævis* (Fr. Schmidt), vii. 1923
„ „ „ (Spach), vii. 1887
„ „ *latifolia* (Gillekens), vii. 1869
„ „ „ (Persoon), vii. 1869 note 4
„ „ *Louis van Houtte*, vii. 1905
„ „ *macrophylla*, vii. 1873 note 1
„ „ *microphylla pendula*, vii. 1888
„ „ *modiolina*, vii. 1884, 1894 note 3
„ „ *monumentalis*, vii. 1891
„ „ *myrtifolia purpurea*, vii. 1905
„ „ *parvifolia*, vii. 1926
„ „ *pendula nova*, vii. 1884
„ „ *plumosa*, vii. 1894
„ „ *pumila*, vii. 1926, 1927 note 1
„ „ purpurascens, vii. **1905**
„ „ purpurea, vii. **1905**
„ „ *rubra*, vii. 1868 note 1
„ „ *suberosa*, vii. 1888
„ „ Van Houttei, vii. **1905**
„ „ variegata, vii. **1905**
„ „ „ *nova*, vii. 1895
„ „ viminalis, vii. **1906,** 1901 notes 1 and 3
„ „ „ leaves, vii. 1906, Pl. 412, Fig. 22
„ „ viminalis aurea, vii. **1907**
„ „ „ marginata, vii. **1907**
„ „ „ *variegata*, vii. 1907
„ „ *virens*, vii. 1896
„ „ *vulgaris*, vii. 1923
„ *campestris*, Miller, vii. 1903 note 1
„ „ Smith, vii. 1901
„ *celtidea*, Litwinow, vii. 1852
„ *chinensis*, Persoon, vii. 1928
„ *ciliata*, Ehrhart, vii. 1851
„ *cinerea*, Planchon, vii. 1867
„ *corylifolia*, Host, vii. 1885 note 2
„ crassifolia, *Nuttall*, vii. **1925,** 1848, 1850, 1924
„ „ leaves, vii. 1925, Pl. 411, Fig. 2
„ *crispa*, Willdenow, vii. 1867
„ *Dampieri*, Petzhold and Kirchner, vii. 1894
„ „ *aurea*, vii. 1894
„ „ *Wredei*, vii. 1894
„ Dauvessei, *Henry*, vii. **1874**
„ densa, *Litwinow*, vii. 1893 note 1
„ *effusa*, Willdenow, vii. 1851
„ elliptica, *Koch*, vii. **1863**
„ *elliptica*, Koehne, vii. 1863 note 4
„ *exoniensis*, Loudon, vii. 1866
„ *floridana*, Chapman, vii. 1855
„ *foliacea*, Gilibert, vii. 1887
„ „ Sargent, vii. 1897 note 6

Ulmus—*continued*
„ *folio glabro eleganter variegata*, vii. 1895 note 3
„ *Fordii*, Loudon, vii. 1866
„ fulva, *A. Michaux*, vii. **1862**, 1848, 1849, 1864
„ „ leaves, vii. 1862, Pl. 411, Fig. 8
„ „ var. *pendula*, vii. 1857
„ *fungosa*, Aiton, vii. 1883
„ *glabra*, Hudson, vii. 1864, 1887 note 1
„ „ Miller, iv. 915; vii. 1864 note 2, 1887, 1894 note 3
„ „ var. *minor*, vii. 1901
„ „ *pendula*, vii. 1868
„ „ „ *nova*, vii. 1893 note 5
„ „ *propendens*, vii. 1888 note 4
„ „ *scampstoniensis*, vii. 1894
„ „ *suberosa*, vii. 1888
„ „ *vegeta*, vii. 1879
„ *Heyderi*, vii. 1863
„ *hollandica*, Miller, vii. 1869 note 2, 1883
„ „ Moss, vii. 1883
„ „ Pallas, vii. 1888
„ „ Plukenet, vii. 1870 note 1
„ „ Späth, vii. 1869
„ *horizontalis*, Loudon, vii. 1867
„ *humilis*, Gmelin, vii. 1926 and note
„ *intermedia*, Hort., vii. 1866 note 1
„ japonica, *Sargent*, vii. **1923**, 1848, 1850
„ „ leaves, vii. 1923, Pl. 411, Fig. 4
„ *Keaki*, Siebold, iv. 920
„ Klemeri, *Späth*, vii. **1872**
„ Koopmannii, *Lauche*, vii. **1927**
„ *laciniata*, Mayr, vii. 1866
„ *lævis*, Pallas, vii. 1851
„ *latifolia*, Moench, vii. 1869 note 3
„ „ Poederlé, vii. 1869
„ *major*, Reichenbach, vii. 1885 note 1
„ major, *Smith*, vii. **1883**, 1848, 1849, 1868, 1917
„ „ distribution, etc. *See* Elm, Dutch
„ „ var. Daveyi, vii. **1884**
„ „ *heterophylla*, vii. 1866
„ „ *hollandica*, vii. 1883 note 1
„ „ serpentina, vii. **1884**
„ *microphylla*, Persoon, vii. 1926 and note
„ minor, *Miller*, vii. **1901**, 1848, 1849, 1918. *See also* Elm, Goodyer's
„ *minor foliis flavescentibus*, vii. 1905 note 4
„ *minor folio angusto glabro*, vii. 1901 note 1
„ *minor folio angusto scabro*, vii. 1902, 1903 note 4
„ *minor*, Reichenbach, vii. 1901 notes 1 and 2
„ *modiolina*, Dumont de Courset, vii. 1884, 1894
„ *mollifolia*, Marshall, vii. 1855
„ montana, *Stokes*, vii. **1864**, 1848, 1849, 1897, 1913
„ „ distribution, etc. *See* Elm, Wych
„ „ sub-sp. *major*, var. *serpentina*, vii. 1884

Ulmus montana, *Stokes—continued*
„ „ var. atropurpurea, vii. **1868**
„ „ cinerea, vii. **1867**
„ „ corylifolia, vii. 1866 note 1
„ „ crispa, vii. **1867**
„ „ „ aurea, vii. **1868**
„ „ *Dampieri*, vii. 1894
„ „ *Dauvessei*, vii. 1874
„ „ *Dumontii*, vii. 1871
„ „ *etrusca*, vii. 1866 note 3
„ „ fastigiata, vii. **1866**
„ „ „ aurea, vii. 1867
„ „ *gigantea*, vii. 1866 note 3
„ „ *hollandica* (Huberty), vii. 1869
„ „ „ (Planchon), vii. 1869 note 6
„ „ *horizontalis*, vii. 1867
„ „ laciniata, vii. **1865**
„ „ libro rubro, vii. **1868**
„ „ lutescens, vii. **1868**
„ „ *macrophylla*, vii. 1873
„ „ „ *fastigiata*, vii. 1866 note 3, 1873
„ „ nana, vii. 1868
„ „ pendula, vii. **1867**
„ „ „ Glasnevin, tree at, vii. 1867, Pl. 393
„ „ pendula Camperdowni, vii. **1867**
„ „ *purpurea*, vii. 1905
„ „ *Smithii*, vii. 1868
„ „ *superba* (Morren), vii. 1873 note 5
„ „ „ (Späth), vii. 1873
„ Mossii, *A. Henry*, vii. 1865 note 2
„ nitens, *Moench*, vii. **1887**, 1848, 1849, 1874, 1909 note, 1914, 1918
„ „ distribution, etc. *See* Elm, Smooth-leaved
„ „ var. argenteo-variegata, vii. 1895 note 3
„ „ betulæfolia, vii. **1896**
„ „ Dampieri, vii. **1894**
„ „ *folio argenteo-marginata*, vii. 1895 note 3
„ „ italica, vii. **1892**
„ „ „ leaves, vii. 1892, Pl. 411, Fig. 9
„ „ modiolina, vii. **1894**
„ „ pendula, vii. **1893**
„ „ Rueppellii, vii. **1893**
„ „ stricta, vii. **1888**, 1884
„ „ „ Coldrenick, trees at, vii. 1890, Pl. 397
„ „ „ leaves, vii. 1889, Pl. 412, Fig. 20
„ „ „ timber, vii. 1889
„ „ suberosa, vii. **1888**, 1883 note 2, 1885 note 2
„ „ „ leaves, vii. 1888, Pl. 412, Fig. 19
„ „ umbraculifera, vii. **1893**
„ „ „ gracilis, vii. **1893**
„ „ variegata, vii. **1895**

Ulmus nitens, *Moench—continued*
" " var. virens, vii. **1896**
" " Webbiana, vii. **1895**
" " Wheatleyi, vii. **1891**
" " " leaves, vii. 1891, Pl. 412, Fig. 21
" " " Richmond, tree at, vii. 1892, Pl. 398
" *nuda*, Ehrhart, vii. 1864 note 3
" *octandra*, Schkuhr, vii. 1851
" *opaca*, Nuttall, vii. 1925
" parvifolia, *Jacquin*, vii. **1928**, 1848, 1850, 1927 note 5
" " leaves, vii. 1928, Pl. 411, Fig. 5
" pedunculata, *Fougeroux*, vii. **1851**, 1848, 1897
" " distribution, etc. *See* Elm, European White
" " var. aureo-variegata, vii. **1853**
" " celtidea, vii. **1852**
" " erubescens, vii. **1853**
" " *glabra*, vii. 1852
" " punctata, vii. **1852**
" " urticæfolia, vii. **1853**
" *pekinensis*, vii. 1927
" *pendula*, Loddiges, vii. 1867
" " W. Masters, vii. 1868
" " Willdenow, vii. 1855
" *pendula laciniata Pitteursii*, iv. 915
" picturata, *Cripps*, vii. 1905
" *pinnato ramosa*, Dieck, vii. 1926
" Pitteursii, *Petzold and Kirchner*, vii. **1873**
" *Pitteursii*, Hort., vii. 1871
" *Plotii*, Druce, vii. 1901, 1906 note 2
" *præstans*, Schoch, vii. 1873 note 5
" ? *pubescens*, Walter, vii. 1862
" pumila, *Linnæus*, vii. **1926**, 1848, 1850
" " distribution, vii. 1927
" " leaves, vii. 1926, Pl. 411, Fig. 1
" " varieties, vii. 1926
" " var. pinnato-ramosa, vii. **1926**
" " " leaves, vii. 1926, Pl. 411, Fig. 6
" " transbaicalensis, vii. 1926 and note
" *pumila*, Plukenet, vii. 1926 note 1
" " Walter, vii. 1924
" *purpurea*, Koch, vii. 1868
" *pyrenaica*, Lapeyrouse, vii. 1874 note 2
" *racemosa*, Borkhausen, vii. 1851, 1860 note
" racemosa, *Thomas*, vii. **1860**, 1848, 1849
" " leaves, vii. 1860, Pl. 411, Fig. 10
" " timber, vii. 1861, 1921
" *Rosseelsii*, Koch, vii. 1907
" *rubra*, F. A. Michaux, vii. 1862
" ? *sarniensis*, Loddiges, vii. 1891
" *sativa*, Miller, vii. 1903
" " var. *Lockii*, vii. 1901
" *sativa*, Moss, vii. 1901
" *scabra*, Miller, vii. 1864
" " var. *heterophylla*, vii. 1866
" " *major*, vii. 1883
" *serpentina*, Koch, vii. 1884
Ulmus—*continued*
" Smithii, *A. Henry*, vii. **1868**
" " leaves, vii. 1868, Pl. 412, Fig. 24
" *stricta*, Lindley, vii. 1889
" *suberosa*, Ehrhart, vii. 1888 note 2
" " Michaux, vii. 1864
" " Moench, vii. 1888, 1903 note 3
" " Smith, vii. 1903
" superba, *A. Henry*, vii. **1873**
" *surculosa*, Stokes, var. *latifolia*, vii. 1903
" *tetrandra*, Schkuhr, vii. 1888
" *Thomasi*, Sargent, vii. 1860
" *tortuosa*, Host, vii. 1901 note 2
" " Loddiges, vii. 1894
" *tricuspis*, Hort., vii. 1866 note 1
" *tridens*, Hort., vii. 1866 note 1
" *triserrata*, Hort., vii. 1866 note 1
" *turkestanica*, Regel, vii. 1926
" *urticæfolia*, Audibert, vii. 1867
" vegeta, *Lindley*, vii. **1879**, 1849, 1868
" " leaves, vii. 1880, Pl. 412, Fig. 16
" " Oxford, tree at, vii. 1881, Pl. 395
" " seedlings, vii. 1880
" *Verschaffeltii*, iv. 915
" *viminalis*, Loddiges, vii. 1906
" *virgata*, Roxburgh, vii. 1928
" viscosa, *Koch*, vii. **1896**
" *vulgatissima folio lato scabro*, Gerard, vii. 1903 note 1
" *Wredei aurea*, Hort., vii. 1894 note 2
Umbellularia, Nuttall, vi. **1531**
Umbellularia californica, *Nuttall*, vi. **1531**
" *parvifolia*, Hemsley, vi. 1531 note
Umbrella tree, vi. **1588**. *See* Magnolia tripetala
Unedo, Hoffmannsegg et Link, iii. 558
Unedo edulis, Hoffmannsegg et Link, iii. 559
Urajiro-kamba tree, iv. 975 note 2

Valonia, v. 1270
Valsonectria parasitica. *See* Fungi
Venice turpentine, ii. 373
Vernis du Japon, i. 32
Virgilia lutea, Michaux, ii. 446
Viscum album *and* laxum. *See* Plants, Miscellaneous
Vitis Coignetiæ. *See* Plants, Miscellaneous

Wahoo tree, vii. **1924**. *See* Ulmus alata
Walnut, Black, ii. **262**. *See also* Juglans nigra
" " cultivation, ii. 265
" " distribution, ii. 263
" " hybrids, ii. 263
" " identification, ii. 262
" " in England, ii. 267
" " in France, ii. 267
" " in Germany, ii. 266, 267 note 1, 269
" " in Ireland, ii. 269
" " leaves, etc., ii. 250, 262, Pl. 73, Fig. 6
" " remarkable trees, ii. 267
" " The Mote, Maidstone, tree at, ii. 267, Pl. 77
" " timber, ii. 269

Walnut, Black—*continued*
„ „ Twickenham, tree at, ii. 267, Pl. 76
„ „ varieties, ii. 263
„ Common, ii. **251.** *See also* Juglans regia
„ „ Barrington Park, tree at, ii. 258, Pl. 74
„ „ Cam-yr-Alyn Park, tree at, vi. Pl. 366
„ „ cultivation, ii. 256
„ „ distribution, ii. 255
„ „ Gordon Castle, tree at, ii. 259, Pl. 75
„ „ gunstocks, ii. 260
„ „ hybrids, ii. 254
„ „ identification, ii. 252
„ „ leaves, ii. 250, 251, Pl. 73, Figs. 2 and 4
„ „ panelling, ii. 261
„ „ remarkable trees, ii. 258
„ „ St. John's, ii. 253 note 2
„ „ seedling, ii. 252
„ „ self-sown, ii. 257
„ „ timber, ii. 260
„ „ varieties, ii. 252
„ Cordate, ii. **277.** *See also* Juglans cordiformis
„ „ distribution, ii. 277
„ „ identification, ii. 277
„ huskless, ii. 254
„ Manchurian, ii. **276.** *See* Juglans mandshurica
„ Narrow-fruited, ii. **279.** *See also* Juglans stenocarpa
„ „ leaves, etc., ii. 250, 279, Pl. 73, Fig. 1
„ Satin, iii. 503, 504
„ Siebold's, ii. **280.** *See also* Juglans Sieboldiana
„ „ cultivation, ii. 281
„ „ distribution, ii. 281
„ „ identification, ii. 280
„ „ leaves, etc., ii. 250, 280, Pl. 73, Fig. 8
„ Texan, ii. **274.** *See also* Juglans rupestris
„ „ cultivation, ii. 275
„ „ distribution, ii. 275
„ „ identification, ii. 275
„ „ leaves, etc., ii. 250, 274, Pl. 73, Fig. 5
„ „ variety, ii. 274
Washingtonia, Winslow, iii. 687
Washingtonia californica, Winslow, iii. 699
Wattle, Green or Black, vii. 1698 note 1
„ Silver, vii. **1697.** *See* Acacia dealbata
Weld, v. 1240 note 2
Wellingtonia, iii. **699.** *See* Sequoia gigantea
Wellingtonia, Lindley, iii. 687
Wellingtonia gigantea, Lindley, iii. 699
Whip handles, Celtis, iv. 926
„ „ Holly, vii. 1717, 1720
Whitebeam, i. **166.** *See* Pyrus Aria
„ Swedish, i. **159.** *See* Pyrus intermedia
Whitethorn, vii. **1733, 1739.** *See* Cratægus monogyna *and* C. oxyacantha
White-wood, i. 65 note 1, 73; v. 1033. *See* Liriodendron Tulipifera
Willow, vii. **1743.** *See also* Salix
„ Bay, vii. **1747.** *See also* Salix pentandra
„ „ hybrids, vii. 1748
„ „ varieties, vii. 1748
„ "Belgian Red," vii. 1756
„ "Close-Bark," vii. 1763, 1765 note 2
„ Crack, vii. **1754.** *See also* Salix fragilis
„ „ distribution, vii. 1758
„ „ hybrids, vii. 1748, 1751, 1755
„ „ varieties, vii. 1755
„ Cricket-Bat, vii. **1763.** *See also* Salix cœrulea
„ „ cultivation, vii. 1765
„ „ Hertford, tree at, vii. 1768, Pl. 381
„ Goat, vii. **1745.** *See also* Salix Caprea
„ „ distribution, vii. 1746
„ „ hybrids, vii. 1746
„ „ varieties, vii. 1745
„ Golden, vii. **1768.** *See also* Salix vitellina
„ „ varieties, vii. 1769
„ Johnson's, vii. 1758
„ Kilmarnock, vii. **1746**
„ Leicester, vii. 1758 note 1
„ "Open-Bark," vii. 1755, 1756
„ Purple King, vii. 1748
„ Red, vii. 1757 note 1, 1769
„ Ring-leaved, vii. **1750**
„ Weeping, vii. **1749.** *See also* Salix babylonica
„ „ Cheltenham, tree at, vii. 1753, Pl. 379
„ „ Chinese names, vii. 1752 note 4
„ „ distribution, vii. 1752
„ „ hybrids, vii. 1750
„ „ of the Psalms, vii. 1771
„ „ variety, vii. 1750
„ White, vii. **1759.** *See also* Salix alba
„ „ distribution, vii. 1760
„ „ Haverholme, tree at, vii. 1761, Pl. 380
„ „ hybrids, vii. 1749, 1750, 1756
„ „ remarkable trees, vii. 1761
„ „ timber, vii. 1762, 1765 note 3
„ „ variety, vii. 1760
Wistaria. *See* Plants, Miscellaneous
Witches' brooms. *See* Plants, Miscellaneous
Wo-ch'ang-ch'iu tree, i. 64
Wollaghan tree, iii. 562
Wu-t'ung tree, vi. 1494 note 1

Yachidamo tree, iv. 894
Yama-harinoki tree, iv. 946 note 4
Yang-liu tree, vii. 1752 note 4
Ya-tsao, vi. 1515
Yellow-wood, ii. **446.** *See* Cladrastis tinctoria
Yew, i. **100.** *See also* Taxus baccata
„ age, i. 116
„ bog, i. 102
„ Canadian, i. **109**, 100
„ Chinese, i. **108**, 100

Yew—*continued*
„ Common, i. **101**, 100
„ „ varieties in cultivation, i. 109
„ cultivation, i. 119
„ distribution, i. 101
„ Dovaston, i. **112**
„ dwarf forms, i. 112
„ etymology, i. 101
„ fastigiate forms, i. 110
„ Florencecourt, i. **110**
„ Florida, i. **109**, 100
„ flowers, fruit, and buds, i. 115
„ fossil, i. 101, 102, 107
„ Golden, i. **113**
„ hardiness, i. 116
„ hedges, i. 123
„ Irish, i. **110**
„ „ at Seaforde, i. 110, Pl. 34
„ Japanese, i. **107**, 100
„ „ at Nikko, i. 107, Pl. 31
„ Mexican, i. **109**, 101
„ Midhurst, avenue at, i. 120, Pl. 32
„ „ grove at, i. 120, Pl. 33
„ Nidpath, i. **111**
„ Pacific Coast, i. **108**, 100
„ poisonous properties, i. 117; Errata, 1936
„ remarkable trees, i. 120
„ seedling, i. 115
„ sex, i. 115
„ soil and situation, i. 119
„ timber, i. 124
„ Tisbury, tree at, i. 122, Pl. 35
„ topiary work, i. 124
„ varieties, i. 100, 107-115
„ Whittingehame, tree at, i. 123, Pl. 36
„ yellow-berried, i. 114
Yoguso-minebari tree, iv. 979 note 2
Ypreau, vii. 1869 note 2, 1870 note 1
Yü-lan tree, vi. 1597
Yu-san tree, vi. 1476 note 1

Zéen tree, v. 1321
ZELKOVA, Spach, iv. **914**
Zelkova acuminata, *Planchon*, iv. **920**, 914, 916
„ „ Carlsruhe, tree at, iv. 922, Pl. 250
„ „ cultivation, iv. 922
„ „ distribution, iv. 920
„ „ leaves, iv. 920, Pl. 267, Fig. 7
„ „ timber, iv. 923
„ *carpinifolia*, Dippel, iv. 915
„ crenata, *Spach*, iv. **915**
„ „ cultivation, iv. 917
„ „ distribution, iv. 916
„ „ Glasnevin, tree at, iv. 919, Pl. 249
„ „ leaves, iv. 916, Pl. 267, Fig. 6
„ „ remarkable trees, iv. 917
„ „ timber, iv. 919
„ „ Wardour Castle, tree at, iv. 917, Pl. 248
„ cretica, *Spach*, iv. 915
„ *hirta*, Schneider, iv. 920
„ *japonica*, Dippel, var. *Verschaffeltii*, iv. 915
„ *Keaki*, Maximowicz, iv. 920
„ *serrata*, Makino, iv. 920
„ *ulmoides*, Schneider, iv. 915
„ Verschaffeltii, *Nicholson*, iv. **915**
„ „ leaves, iv. 915, Pl. 267, Fig. 8
Zembra tree, v. 1037
Zimbro tree, v. 1037
Zirbe tree, v. 1037
Zladna bukwa tree, i. 9
Zunder tree, v. 1132 note 2
Zürbel tree, v. 1037

THE END

Printed by R. & R. CLARK, LIMITED, *Edinburgh*

LIBRARY
FACULTY OF FORESTRY
UNIVERSITY OF TORONTO

OVERSIZE: IN LIBRARY OFFICE

QK
488
E5
1906
Index

Elwes, Henry John
The trees of Great Britain & Ireland

Forestry

PLEASE DO NOT REMOVE
CARDS OR SLIPS FROM THIS POCKET

UNIVERSITY OF TORONTO LIBRARY

[131138]